

cgctcgccaa ccatggaggg ggggaggaca atgccaacga ggcgagaaag ccacacgggc 120  
 ccaagcatgg caaggacggc acgaccccca gaaggaataa ctacaaagcc tggcacaacg 180  
 cgggcaagat accctgcaac gggcacaaag 210

<210> 29977  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 29977

tgagggtgat tgcaatggag aaggtgttgt ttttgctgag gctttcatgg ccagaggctt 60  
 agtgtattat tccccctctc ataatacagg tcacagatta attaattcct tcaacttttg 120  
 gaatttctag atcatgaacc gaaaatccta tgaccacagc ttataaaaaa gaagagaaaa 180  
 acacgtctaa ttataattat tatattcaat tataagttta tttatcgatt aagtatgatc 240  
 atcattatga agatattcaa atgatgacct actgggtttc tgttaatata acagaggacg 300  
 catcaagtat ctaatacaag tgttatgggc tgggtgtgtca acgcacaaag cttgtgtata 360  
 ggaagcttat ggtggtataa tccccctgcag aaatacaaat attaattatt ttaacagatt 420  
 tgtctc 426

<210> 29978  
 <211> 142  
 <212> DNA  
 <213> Glycine max

<400> 29978

tatccgaacc tacctactca tactttatgc ctagactgat cggctactct gcccttaat 60  
 ctttctatgc atagagcata ctgtcaatga gacagccaag taccaactaa tctcaagaga 120  
 aacatgtcat caagcttcat at 142

<210> 29979  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<400> 29979

ttacaatcgt tgaccatgat ttgagaaacc gtgagggtta atatcactgt tgctatgaca 60

atcttttgtt atagtcagtc cacatggtag ttatgtcaca gggaatgttg actataaata 120  
tcacgtctaa gctatcggaa ctgactccga acttggatac tgactatagt gattcaacag 180  
actttttgag actacgggat ctatgagaga ctacagcatgt attctataat gactatacaa 240  
agtattttcg cactataacg actattaata tcatactcct gagactatgt atagagtaga 300  
tgagttatat taagctatgg atcggacatc atcaagtata ctgcttgatt atata 355

<210> 29980  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29980

agcttgatnc tcgaatngat tntagcctta gtttcacttt gggtattagt caattcgggt 60  
aagaaagaaa aatcccanag aanaacgtcc gatttgattt ttgattatt ttattaaaat 120  
atatattttt tattattata ttactatttt gccttttttt tgttttaaata gtgggttacgg 180  
catgacagaa cggtcgaatt tcattttaac agaaattaaa agatgttaca attcaaatga 240  
tcgggtgaaa tttattttat ttttgattag gcgaggaaat gacttanata aatgactaaa 300  
gcacgtcaaa agaggggatg gaaagtaaata gaaataaaaa taaaagcacg cgaaacaaat 360  
ggggaccact aagggtacat agaatg 386

<210> 29981  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29981

nttaactgaa tttgcaacgt tctaattgtt ttttaaatgg tgtaatcgat tacaatatat 60  
tggtaatcga ttaccagtgt atctgaacgt tgaaattcaa attcaattgt gaagagtcac 120  
atcttttcat aaaattattt gtgtaattga ttacatgggt ttggtaatcg attaccagtg 180  
acaagttttg aataaaaaatc aagagatgta actcttccaa tggttttcag gttttttctca 240  
aggttataac tcttccaatg gtttttcttg accagacatg aggagtctat aaaagcaaga 300  
ccttgacttg aatttcaata actntatata tatactttta catcctttga atctctttga 360

acatcttttt gaactttctt ttctttttct tcctttgcca aaagctttct gagttttctg 420  
gtttccaaac cttgtttctt 440

<210> 29982  
<211> 371  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29982

agcttgacag gtccaggtgc ggttgctgct actggtggag ggacttcaat ttgcttgcca 60  
gacctcaagg tgatggcact cacattcttc ggattntgca ccatttgtga aggcaatttg 120  
tcagaatttt gggactgagc ttggttcaac tgagtagcca tctgccccat ctgatttctc 180  
agactctaaa tagaggctct tgtctctntc tgaaattgca tattctggat agtcatttgc 240  
ctcactaact cctctaagga aggttgagaa aagggcctca gttgcttggt gtctttgttg 300  
gtggtgctgc attggaggag gaacatatgg cctgcttgga ccaacaacat tctggaaggg 360  
agggacaggc t 371

<210> 29983  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29983

tccttttctt tggccaatgc tggactcggt tggcagtgat ttccttgcca atctgatgct 60  
cagaaacatc aatatccacc actccttcag taggtctgcc caggtatttg ttgatcaccg 120  
caggggagaa tctaacacac tttcctctga caaacactct ttgataatca tcactttttc 180  
tgtttggtat gtcagagggg atgttgacaa taaattccct gactaggctt tcataacagt 240  
ctcccaactt ggtgactggt ttcagtagtc cagcagcctt gatgagttcc atggtctcct 300  
tgcaatccaa ggcatttctt ccagttctc tttccaaggg aagtctgagt tgatacacgt 360  
atttccacct ttcagcattg ccaatggagt ggaatgagat gttgtccaat ggtgcatcan 420  
ggacattntc aggcaccttt ttcccagatt tcttgggt 457

<210> 29984

<211> 462  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29984

ctaagctgag tcacattggg ggttccagtt aaacctgcgc tgtgtatata cctcattatc 60  
 aattggccta gtatcaacaa cgttatcaac tgtttgaatg ccctccaaaa gagttggttg 120  
 anaactatca ttacttgaag gcagatattt atacacgact aataatccaa gagtgaatat 180  
 agcttgcagc ttcgtagagt ccccttgaac tgagaagaat atgagcatgg cacgtatgaa 240  
 cagatccaca cagagacgca tgatgcatat tacagtgtct attaacctcc catcgttgcc 300  
 tgcggggaag ccacgaactc gatacacaaa cagagtattg tacttgtcaa ccacatatct 360  
 atacccaaaa taaatggcac caacaggaac cacaatggga ttaaatgaac agtatactag 420  
 agtcagggct aatattgtca aattaaaggc gtaatactgt gc 462

<210> 29985  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29985

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 ttttgggggt tcatttaata atgtagcaaa caaagttacc aagctctaca gttacattct 120  
 ctgttcctag tggagagttg tttaaaacca gcattcttta atttctcaag ccncagtc 180  
 tcttcaccaa ccagacaac aatttcaggt gcattctctg gtggcttcaa tgctgtggca 240  
 gctgttcccg cacaagctcc aggtgggttt gggcagccag cacanattgg atcagggcaa 300  
 caggttcttg ggtcagttct cgggtggtnt ggacaatcaa gacagcttgg tagtgggttt 360  
 gctgtccta gtggtttcgg tgggtggattt gctggcggtta gttctccag t 411

<210> 29986  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29986



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 aaccccatth atgctagtgt acttttattc agtcactttg gaaataattt atagaaatac 120  
 tgtgccatat atttttgaaa caaacattat aataaactac ccacatactg actntaaaca 180  
 agtacttata atttagtta ttcatactaa atacatggat atgtccaaaa tctacttga 240  
 agcaccaatc tgacattata aacaatggcc gccatctaac actagcattc acttgtgact 300  
 ctagatattt ccagcaagtt cattgttcaa aatcttaatt aattgcgaga ttctgcccta 360  
 ttttgcatag ataaaaagta atataatata gattattntt tacttanaca agtagacatc 420  
 taggatttgc aatanagata gagcaactaa c 451

<210> 29987  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29987

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 tgaaagcaag ctttctaaga catttctaag acagtgcata cgtaagcact gtccttgaaa 120  
 gcaagctttc taagacgatg cttacgtagg cacagtcttg gaaagcaaac attctaagac 180  
 ggtgggttacg taagcatgtc ttagaaagct tactttctga gacgggtacct acaaattacc 240  
 gacttcgaaa gttggctatt ttccaagacg atgtgttctt actcgtcgtt gaaaggtaac 300  
 actttcaatg gtgttagctt ctacgacggt cgacaatcgt ctttgtatat taatttggac 360  
 cgtcgtagaa aaaccatttt tcagtagtgg ttttaaggaag ggtgaaactt aattccaact 420  
 cattcac 427

<210> 29988  
 <211> 459  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29988

tctactgagc acaaataaaa acaaagcaaa atttattttc aatcctacaa aaagaacat 60  
 aaattgggga aaatatatac attttgtaaa agttttctat acaaaagtta gtcgtataag 120

acgactaaca acatccatca aatgaaaatt caaaaaccaa aaggaataaa caaatcaagc 180  
atgtcagagc aaatttatta ttatattcaa caagatcgta aacattggag agtaccgtta 240  
gtggtggtag tccaccggag tgggcagcag ggaataaaag tgccttcgc ttgtcatcat 300  
gcgttaggtc tcatcttcgt gcaatcaatt ntgatttcaa cttgaatgtg aacaagcgcg 360  
tttatgtgtg tagtggtgag tgagagggga agtggaacat gtgagtttct ttntatttaa 420  
gtggaaaata ttctaagacg gttatatggg aaccatctc 459

<210> 29989  
<211> 193  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29989

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ctgatgccgc atagttaagc cagccccgac acccgccaac acccgctgac gcgaaccctt 120  
tgccggcgat gagaatatga ccantggtgt tgatgcacta ttacatgcc ctttgactta 180  
tgacttgatc gcg 193

<210> 29990  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29990

cgtaatccta tgaagctgtg cacaatcnga cgacntcagc tcggacccgg gatcctcaga 60  
gtcacctgcg gcatgttgct ncatatttcg catataanga acataaagct tgggatcgat 120  
cgggcccccg gtaaaggagg ccatggaatg gctcaatttg gtatgggacc aatgaaactt 180  
ttttgattta agtcataaaa tgatgccaaag gtctgttgat ccgctgaaac ttatgacatg 240  
gctgatcaca agaattataa atgaagctac cctggattca aaagaatcca agagttgcat 300  
gaagacacat caagtccctc tatacaatgc tttggcattt caccgactctg tcaatagttt 360  
ctttgaatgg caggtaacct gnggttattc tatttattaa ataaatataa ttaattaaat 420

<210> 29991  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29991

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 aagaanatcc caaagaaaaa tgtccgattg gattttttttt attattttat ttaaagatat 120  
 ttttttgatt attatattat tattttgcct ctttttgggtt ttaaactatg ttacagcatg 180  
 aaagatcggc cagattntat tctaacagaa attaaaagac gttaaaactc aagtgatcag 240  
 tggaaattta ttttattttt tgattaggcg agaaagtgc ttaaataat gactaaagca 300  
 caccanaagg tggtagagaa agcaaatgat atanaataa aagcacgcga aacaagtggg 360  
 gaccactaag ggtacataga atgaattgaa tggttcgatt tcggaaactt accggttgaa 420  
 gaccaaaca cgacgaagaa cgatg 445

<210> 29992  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29992

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 ccttagcctt aggcttatgc aggatttcat tgataggagg agagagcaat gcttcaaata 120  
 agaagaggag gatttaatat gtgggttaaa gttaaactca agttcaaata gaaacttggg 180  
 tccttaattt ataactggt agcatgggtt agattccctt ttttgcagtg tcatgttgcg 240  
 gaatagtata ttactgtatt catatatggt gggtttgctg tgaggggttg cttagttatt 300  
 acgcgctcaa ttttttttga caagacgagc atanagctgc agtaggtaaa atctgccaaa 360  
 ttctccagca ccaacgacct agcttgctta attattaagc tgacattaa 409

<210> 29993  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 29993

caattatcta cattatccac attcctagct ttctttatcc acatctacaa aatagtcctt 60

agatttcctt ctctctttct tttgtataac tgtgtcatat cttagatctc ctttcacttc 120

cttcaaacia caaaatcatg ggtctgagag acattgggtgc ttcactgcct cctgtgtttc 180

ggttttatcc gagtcatgag gaattgggtc gccattacct ctacaaaaag atcgcaaagt 240

aggaagttct gaagggtacc ttggctgata ttgacctcca catatgcgaa ccttggcaac 300

ttccaggtaa atatatattc attctaaatt atatatatat atatatatat atatatatat 360

atatatatat atatatatat atatatatat atatatattc ataagctatt ctgaattata 420

caccttecta tagcttgatc tctgtggttn 450

<210> 29994

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29994

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aacaagcttt ccacatccac aatgcgcgca taaaccacacc atccctgtt gccacacctc 120

aacggagctc acgtactccc acgtagccca tatcctcggt tctctcaaca ccgggtcccc 180

atcaatcctc tcaagcttcc acaacatcca agcaaaaacia cattcaaaca gcacaagcta 240

tcacagccaa gcaaaacaga gcaaaggcag aaaactctgc tcaacacatc aaccaaaatc 300

acagcttttc tcatgtaaag accacagtaa caattccttc gatccaattc gttaccggtt 360

ggatcgactc caaaatttta ctggaagtct atagtgtata agcctacatt ntgaccgttg 420

ggatatacta gcanacatcc agaacgcatt 450

<210> 29995

<211> 304

<212> DNA

<213> Glycine max

<400> 29995

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ccgccgaaca ggtgatctgg atcttgacct ccttcccttg cataaaaagg ttacagtaaa 120

taaacaacgc accattgtaa cataaatatg aagcctgaca aattcacctg tgcagcttaa 180  
tcttatatga tgatggaagt ttgtctgaaa aacataaatc ttaatcttga aaaactctgg 240  
caacaaacct ggaagaatca agagaagtat atggagaatg cctgcgctga gaatgcttgc 300  
tatg 304

<210> 29996  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29996

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ggtgacaatt ttatcaaaca caagtctata aggagacata ccaatgagag ttttaaagt 120  
tgtcctataa gcccaaagtg catcatctag ttttaattgcc caatctttcc tagatgcact 180  
aactgttttt tcaagaatta tttttaactc gctattggac aattctattt ggccactagt 240  
ttgtgggtga tatgggggtg caagcttttg agtcacccat atttagccaa gaggccatca 300  
tacaacttat tacagaagtc agtgcctttg tcaactaatga tngctcgagg tgtgctaaat 360  
ctggtgaann atattttctt tgaaactttt ttaccaccag agaatcatta atg 413

<210> 29997  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29997

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ggatgaaatt cttttatatt tccatgtttg taatacttcc tttccaatgg aaacgtcgga 120  
aatccaactt atgaagagaa aggggtggtc gtagaactgt cattatgcat atcatggtag 180  
ttacttatga taatttgagt gatgcaagtc gtcttttatg tatattgata gaatacaaac 240  
tctattgatg agaatggaag agtatagcag tcaggacaag acatcctcga acagtagata 300  
gaagaacaaa ctatagaata caatagaaga tataccagag attgacatat gtacattcaa 360  
accatctaga agtaatgctc tttgaagagg acaga 395

<210> 29998  
 <211> 440  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29998

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 aagtcaattc ataaactatc attatgttgt aacacttaca atttgggaatt catctaattt 180  
 gctctctgaa caagattgga aatgaaagt agcacaaaca gtaacgaata ggtcttgcta 240  
 ctatagtgga gagaggaaat tctgatggtc ccacaaatat aacaagatat aaatattaga 300  
 taaattactt gttccttaat ttatttactg tgataacaat tgaggttggg tgcattgagca 360  
 atggaagaga aggaactaat aatttcttaa ttatatttgg agcaaaatct attaaataaa 420  
 aatggacatc aaaagtaaat 440

<210> 29999  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29999

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 tgtctaggca cagaaccagg cctcaccagg aacactgacg gataaaaatc gattctaaca 180  
 tcaaaagtac taaacctcac acctaanaac cttatctggt ttgtgatctt gttgcctttg 240  
 atttcataga cactcttctt atcctcaact cctgtcatta gcaaacaatat catggactcc 300  
 cattgcgtcc tactcaaaga atcgccgacg aanaccaccc ttttcccacg aagtcgttcg 360  
 agtattccac ggacatcaaa ccttggaatc tcacagttc 399

<210> 30000  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30000

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 caaactcata tatatgttgg gaaatcacac aattgcccc gtccctcagc tagctagctg 120  
 gatttgtaa tgtagtgcta gctgaattta accaagattg tgaattagca ataataagtt 180  
 aataactcat caaatctcta tcaacttacc ctatatacat aaacgtctct gttttttaaa 240  
 cttttaaaat aactccaagt caattcatat tcttttagact ttagtgggtca cactcacaca 300  
 ctaccaatat aaataatttt acaatctttt gaaataaata atataaaaat catataggta 360  
 gtatatgatc tattcattta ttntttcttt atcatactta taaagaagcc atgcatcaca 420  
 nagtaacccc atggaagtgg cg 442

<210> 30001  
 <211> 101  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30001

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 tgcccattgg agaagaatga aatcaatgag gagttatgat g 101

<210> 30002  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30002

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 aattacaaaa attgaagata aaagctggga aatcaagag taagatattt ttaaaggata 120  
 aatcagctca agaagaacat aattacttga attaattaga aatgctattt atttttaatt 180  
 tcttgtagct atctccttaa ttaaacttat ctacaattct aaaaataggg ggtagacat 240  
 tcgttgtaac ggtgtaaaag tccctatcaa ttcttagaat tatattttag aattgcacct 300  
 actacatgtc tccattattc cattagacac tctagatttc attgtattat ttttataagt 360

gcaattcctt ccacctagga ggagaaatga tgaacctttt ttcgctgtaa ttctatcaat 420  
tcaatacttc atcttaagtt ctttattt 448

<210> 30003  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30003

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ttgagacgaa acagttatgg ggaaatcagg tagctgcacc ttgaagtgtt ctccctcgat 120  
ccttgacaca aaggacatta ctgacccaac ccaggaaatg gggaatactc atccctgtgt 180  
ctggacttag tcgtagacta ctaataaata gctttcagcg gaaagtttct tttgatgaat 240  
aattggaacg ttataattct ctgaaatctg ttatatggga ccagagtgga caaaatggca 300  
ttgtatgaca gtcacttcct gagacaacaa cctncanaga gaaagttggt tctggatata 360  
ctataaagtc acttcctcct tcacctacac ttgaacatat gaaaatatcc t 411

<210> 30004  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30004

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aaacacctca tatattcaaa acgagaagaa ctgtggaatt aaacatcatc cactctatgt 120  
cagactggta attccgtaat tgctgcaaat actaagttat tectctagca tccattgtcg 180  
atttcaagat tttcctatca tagtgatcac attatctgat tgtagttatc attggtacac 240  
tntaacctca taacaaaagtc aatcaataag agtcgatttc aatttgcaga tcagaaaagc 300  
taccctcaa attaggttat tgacttaagc agctgaatgc ataatacaaaa ggaatttgta 360  
gaaactaaag caaaatatat agatggataa tagaaaaagg aaaaggctgc acatctcaat 420  
tccttaccga ttcaccactg agattcatgt aag 453

<210> 30005



<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30005

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tctgcatga cataatggcc atccaaactg ccgcaaaact atatatcaga tgttgaatca 120  
tgcataagat atttcagcat gtctactata tatactatta tgagcattac aagagcaact 180  
gaatgcatca cgcgtgcata tatacgtgtt caataacgtg tacgcctaac tggcgaagat 240  
acatataggg cacttggcaa ctgaatcatg atgatacgag tacctcagac aaaacactcc 300  
tcaacaggaa tatgaattca cagtgtcaat aatgctgttg gtcacgcaga taactcctct 360  
tccctctccg ctctttcgtc cacgatatat attatcaaaa ggctaataatc attgat 416

<210> 30006  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30006

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ccctcttttc ttccttcaat gtcgtgtctt gccgtctctc tttcttttct tccattgaag 180  
caccttctcc aagcttctta tccaaggcat tctcttggtg gcgaagctcc ttcttccatg 240  
gcttattccc tagtggatgg cgctctgtct cacctcttct cctttatctt ccgctgcac 300  
tccatggtag aaaataacca ttgaaggacc tcaatgaagc tcaaagatcc agcctccata 360  
gaagctctac aagtaag 377

<210> 30007  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30007

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atgacatctg taactaaaaa gaactcaaaa ttccttagac caaattaacg atgggcgctt 180  
agcgggatac aactcgtca gtgcgcctc agaaatataa catatcggct tagcgaaaca 240  
gcatgtgctt tagcctaate aacgctgcaa cagatatgcg ctaagctcag cagggttgcg 300  
cttagcggca gcatgaaatt cagaaaattc actaagtatg ggggcttagc gagcaaggct 360  
cgttttagccc aatggctgcc acaatgaaat gagcttagcc cagataggct cggcttagcg 420  
catagctntc aacaaaaaat tggactaagt tacc 454

<210> 30008  
<211> 396  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30008

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atcgaagctt gatgacgaga ggccagagag tgtttcttct ctctgccccg ctctctatga 120  
tggcaacgaa gagtcacgat acaagacaaa gtaagataga gggttgtcaa agcttatcca 180  
gttataacgt gccacgtag catacaaatt ggaaaacaca ggttttcaaa gacggttttt 240  
taaaacgct ctctggaagc atattttaag ccgggtgtaa agtaccgctc ttacaaaagc 300  
tataattatg cacaaaaatg tcaccgctnt atatactaca tcggttgctg tataaccgac 360  
gtataaacag tgacgtagaa aatctctttt ctagta 396

<210> 30009  
<211> 450  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30009

tctctaagct tctcatccga gacactctct tgggtggtgaa acttcttctt caatggctta 60  
ttccctaata gatggtgtct catctcacct tttctccttt atcttacgtt acaacttcat 120  
ggctgaaaat caccattgaa ggacctcact gaagctcaaa gattcagcct ccatagaatc 180  
ttctcaagca agcttccatc aaaaagtact gaacacaact tgctatgttc aaaacagaat 240

attgataaga ccattgataa aaaaaactcc ttatgaacta tagagtggaa gaagacctaa 300  
tatttcatac tttcatcgat ttggatgtga gtattttata ctgaacacta gatatcaact 360  
tgcaaagttt ggttcanagg tggataaaat aatcttcctc gaatgctcta acacatctaa 420  
agcatacaaa gtgtttaact caagaacttt 450

<210> 30010  
<211> 376  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30010

ttacatgccc aactgtctta agagacattt gtattgatag atgtattgag ttagcatct 60  
tagtatatat catttcatat gcatcatgca tcatcatgta ggagtaagaa gaaagtttct 120  
aaagttagaa aatttattca gtagttcgaa ctctgtgttt taattgatta cgcaagtgtt 180  
tgaagcttgc atagaagtggt ctcattattgg tttaatcgat tacatgctta tagtaatcga 240  
ttacacaatt cgctatgaga caatgattga tttntcaga agtctttgct ttaattgatt 300  
accacgtgat ataatagatt acttctctct taataagtggt ttcagaagcg atcaagaaca 360  
ctgtaatcaa ttacat 376

<210> 30011  
<211> 450  
<212> DNA  
<213> Glycine max

<400> 30011

tgcattgct ttcttcataa gaaatcaaca gatctactgc aagatgaacg agattgtcca 60  
gtatcaataa ctggagcccg tctaacaaca acataaggta gtgactccac ctcaatggac 120  
gaagtataac cacatttata ctccattagt tgcatacaag gctttaaccc caggtgccac 180  
agtagattgg atactccctt atcgacaaga ccagtgtatc ccaacctggg gaagatggat 240  
cttcatttga tgcctagtgg taccccaaga accactcggt cattgtctat gccagtagag 300  
ctaaagtaaa agaaaattat cccttcaagt gatcccttta ccaagactcc aagatttact 360  
tcacctacaa caaccatcaa aatggacctt tccgaggaga atccactcc taaagtccaa 420

tggtccaagg aggtgcatat ttgtacacct

450

<210> 30012  
<211> 482  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30012

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ctgagtcgaa cccgaggcat gcttggcaac gaggtcaatg tcttatccgn ggangccatt 120  
cttagaagct attaaatggt ttcaggcttg agaattaact ttggccagaa ccactttggg 180  
gccattggcc catctgaaaa atgggtggtgg gccgctgctg aatatcttaa attggccatg 240  
cctcaattcc ccttttggtg cctaggggtg cctataagca ttaatctgag aaaaatatgg 300  
tgtgggagcc tatcattaaa acggtcgagg ctaagttgaa caagtggat caaggaacat 360  
ctctatggct ggaagaatca cccttatcaa tgctgtttaa cagcacttcc cttgtttact 420  
tgtctntac aggtccctc agcagcatta atagataaat gctattcgag acacttttgt 480  
gg 482

<210> 30013  
<211> 449  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30013

tagtgaaaca ctaaataac acctctcttc taatggaaat tcaaacaatca atttgccaca 60  
taatgtaata ggggtgtaaa acaggttgaa ttcataaac caaccacat aatcctcaa 120  
aaaatggcag agtatattag gtgattaaat tcatcatccc accttgata agttgtcaac 180  
ttaaggagtt ggaggctaaa gaactaactt gctcagtgtt atcaagacta taccgatcat 240  
gattcggcca ggggaactagg ttgatgggtc agtggttgaa ctgaacgtgg gtcgctagcc 300  
gaactggtat atattaaata tttaaattct atagtaaata tatcatatat aaattacttt 360  
ntttgtatct atatcataaa attntgtttg tatcaagagc gggtggcaca attggtagcg 420  
gcttaagtcc ctaaaccaag tggtccaag 449

<210> 30014  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 30014

catcatacca cctccaggtg ctggaactac ttcacatggt tcttgatggg gcctatgcca 60  
 attaagagcc ttggatgaaa gaggtatgcc tatgtcttcc acaacagagt cacacttaga 120  
 agacggactc ctacctctcc gtattaaatc atgaaagga agaagccaac tgtcaagctc 180  
 tttcacatct ttgagaagtc cctgttacac tttggcgaat caagatctaa tgaaaaagat 240  
 ggatcccaac agtgaagctg gactattcct gggatactct acctacagca gagcatatag 300  
 agtatacaat tccataacca tagcagcgat ggaatccatc aatgtggttg ctgatgatct 360  
 gtctcca 367

<210> 30015  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30015

tagcnnagnn gttcctgcct catttccagn gagcatcgcg atcaaacaaa gagcgcggtat 60  
 atgacaatca ccgggtcaat aaacgaagag gacaacactg tttaccttaa agaccggata 120  
 tctgacataa tgggtatgca caatttcac cccacatttg caagaatctt acaataaatt 180  
 atttcatgga tcaaaccacg tagttatgtg ccgggtcaatc tccacatgat gcataattaa 240  
 gctattttaga ttacggagaa gagctgataa aaattgatta ctgatcacct c 291

<210> 30016  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<400> 30016

taatggcctc attagtctca gtcttaggtc caacagcttg aggtggaacc ttccaactga 60  
 cctactttcc cttccttccc tgcgctttgt atatctccaa cacaacaact tctcaggtgt 120  
 tattcctgat tctctgccac cagggcttat ctttcttgat ttgtcccata actcttttac 180

aggacaaatt ccagcctcaa tccaaaactt gacacatctg ataggattta acctccaaaa 240  
 caactctctc acaggaccta ttcctgatgt taaccttcct agccttaagg atttggattt 300  
 gagcttcaac tacttgaatg gatctattcc ttcaggtctc cataagtttc ctgcctcctc 360  
 atttagaggg aatttgatgt tatgtggagc acctttgaaa caatgttctt cagtttcccc 420  
 taataccaca ttgtctccac caaca 445

<210> 30017  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30017

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 gtttccctta tcttgttttg aagctcacta caagccttaa gtgagaaacc atgatatcac 120  
 catatcctta aggaatattg gagctgtgga attgttatgg gaataagagt ggagggtttt 180  
 tgtttcattg gacaacttgt tatgatggct atgctacatg atgtattttg tgccatactt 240  
 gatgtacatt gtatatngga taaatgttgg acatgctgaa tgaaatgttg tgtctcaaag 300  
 gctatagagt 310

<210> 30018  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30018

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 gccccacatt atttccatga cacaaatgca aaaatgatga tttggaaatt ttatgcaaaa 120  
 ctggtcatgc atgcacctat gtggacgctc aagtgtcaaa cttttatggg catgtgatgc 180  
 tagggctcaa gattcatttc ctctatttta aatcaacca atgtttccaa aatatgttct 240  
 tttatcaatt tgtgcattca tccgagtcca tttcgggcgt ctgggaaaat ttcacagcgt 300  
 tcacccttcg ggtgtacaca cacatttttt tcaaaactag ctatgatcag cgaatttttc 360  
 ttcaaagaaa agatggaagt catctctttt caaaagcatg ttggcttgtc agctatacta 420

cttattattt

430

<210> 30019  
<211> 424  
<212> DNA  
<213> Glycine max

<400> 30019

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tagagcaaac ttgcggtctc gacagatcga agttgaagat gcaacatgcc cattctgcag 120  
agaggtggat gaaagcgcac gtcacatctatt ctttcattgt cacaagataa ctccagtctg 180  
gtgggaatcc ttgtactgtg tagatctttc cggtgccttg ccaaatacacc caaggcatca 240  
ctttcttcaa tacatacaca gagtaacaga ggaaatgacg tctaccacat ggaaatgggtg 300  
gtggttgga ctagacatgga ccatttgga tcaaacatat aacattatct tctccaatgg 360  
tacattcaat gccatcgaga tactagatga tgcagctttc ttactatgga tgtggctaac 420  
taac 424

<210> 30020  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 30020

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gtggtaccta gagatatgtc gcgggggtca ggagacctg gggacgtcag gtggtgtgct 120  
attgcccaca accaagcttg atcaatctg acccaactcg ggcatagtca gtcagtgaga 180  
acctgtgacg tacctaaaca ggcaagctcc tgacagtcaa ccaataaaaag aacaaagacc 240  
acaaagcaag gaggcttgtg tgggtggtgg ccagctatgg atcttgagtg gtatctggaa 300  
tttggcctct ggtaatcgat taccaagggt gtgtaatcga ttacaaggct taaaaatgaa 360  
gacaggaagt taagatggcc tctggtaatc 390

<210> 30021  
<211> 439  
<212> DNA  
<213> Glycine max

<400> 30021

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tccatgatgt ggaaaatcgt taatagtaca aaacaccatg gcgcgtaacc tgaacatctg 120

ttgcacattt gcatcccacg catctaccct ttcttccac aattttttca aatcttcaat 180

taacggacta agatacacat caatatcatt ctcggttgct cttggaccgc cgatcatcat 240

acacaggata atgtattttt gcaaaatata caaccagggg ggagggttga aatcatcagt 300

aaaacaggcc acaaactgtg gttgttgctt aagctgccat aaggattcat tccatcagaa 360

gcaagagcaa gccttaagtt ccttggtctg tccccaaact ctggatacaa atgatcaatt 420

gtcttccact gtggagaat 439

<210> 30022

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30022

agcttcttat ttcttgctca tcttggttgg gatactntnt cttccatggc ttattcctta 60

atggatggtg cctcctctca cctcttttcc tttgtcttcc gctgcatctc catgggtggaa 120

aatcaccatt aaaggacccc attgaagctc anagatccag cctccataga atccctcttt 180

gtaaacaacc aaaatttctc aattgattat ttttccttgt ttggtgattg ttgcaattct 240

cttagtgtag tactagtga atgaaatagt gtgttaattc ctctctcca tttctctagt 300

ttttattttc gacttgaatc ctttacgaac cctattctac aagttgttga actatatcc 360

aaatttctac cttttgcaac tatggaacan taaaatatta aa 402

<210> 30023

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30023

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gtcacctcc ttgagatgag aagctagagc ttaactacac acaactccta taatagctaa 120



attcatccca tgccaaaata catgaaaata caaaaaaatt tctagtacaa ggactactca 180  
 aaatgtcctg aaatacaagg ctaaaatcct atactattag aatgacccaa atacaaggct 240  
 caaaagaaga aaaaatctat tctaataattt acaaagaaga gtggacccaa cattgaccca 300  
 tgagctcaaa aatctatcct gaggttcatg agaaccccag agccttcttt agcagctcta 360  
 acccaatcat cttggagtct tctgtccaat aaccttgga gaaaggattg catcaacttc 420  
 tccctcgagc gttnttggat ctaattatgg tgtaagagt 459

<210> 30024  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30024

agctntaagt ctttcaacan attatttatt gttcatagtt ttattaataa aaaaaataaa 60  
 tgccttatat tctggcaaaa aaggtacata tgttgacaaa acatatgtan gaatacaagt 120  
 gggaagggaa gtctcttttg tgtaagaatg aaaaagtgag caccatatga gtgaggataa 180  
 aaatcataaa ctngagtttt aaaggtttta gttaaagtgt gaccgtcaat tttcttatgt 240  
 ggntgttcat agcttatagg taaaatctcc cctgtgattt atccccctca tngcataata 300  
 attagtataa gagtagatga tntaacttgg tgatcgactc agacgagtaa gatagtaacg 360  
 gaggatccta gtcctangga tccttgtac canaagtctt tctggcgatg ggt 413

<210> 30025  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<400> 30025

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 tgaacttggt gactaaatct tgaaatcatt ctttgggggtt tttgtcgtca tcttagtcat 120  
 catcaaaact tcttgaatca acttgattca tcatcatgaa gcttgcttct acacttaacc 180  
 cccaagacca aaaaccaact agcctgagag gctaggaaaa aagagccacc agtccctcta 240  
 aaagagcccc catatccttt agttccatca aagaagaata aggagcacta cttcaagtgt 300

ttattggaga tattcaaggg gttggagata accatgccat ttggggaagc cttacagcag 360  
 atgctgctct acaccaaatt catgaaggac atcttcacca agaaggggaa gtacattgac 420  
 agtgaaagca ttgtggtggg aggcaactgc aatgcagtga t 461

<210> 30026  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30026

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 gatagagcaa gaaatgaata gccaatgggt gatacatgga cggagatgag aaagatcatg 120  
 aggaagcggg atgtgccggc tagatactgc aaggacttga aattcactct ccgaaatcta 180  
 acaccatgca acaaggaggt tgaggagtat ttcaaggaaa tggatgtgct gatgattcaa 240  
 gcaaatattg actaagatga cgaggcaact atggctcgac ttattaatgg tttgactaat 300  
 gatatactg atacttgtga gctgcatgag tatgttgaca tggatgatct gcttcacaaa 360  
 gcaa 364

<210> 30027  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30027

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 ttgggtgttg agaagtcaaa ttttgattcg gtggaatttt acgtgtaaat ccagtttgag 120  
 caagtttaga ttgatgttat ggacttgtgt gaggagagag tttgcttcaa atttacctca 180  
 ttctaaattt cacttctcaa gcctagaaaa tccattaaat tgagggggtt tggacaccta 240  
 gattttgtgt tgctgtggtt tgaagcttgt ctttggttta tacatgattg atacatgatt 300  
 tgagacttgt aggatttgat ttgggcaaga ttggatgagg ggaagtgtga ttgtcgaaat 360  
 ctgcactctg tgcagattat tgctgtgaaa ttgtgcagca taatcttgca tgagtgcata 420  
 caaatgcttg tgtgtgat 438

<210> 30028  
 <211> 328  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30028  
  
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 ttgggttcta tgaagcccaa tgacaaagtc cataactaatg tctaccaag gtgcanatgg 180  
 aatgggtaag ggtgtgtata gcccatgagg catcacccta gacttggctc gtaaacaagc 240  
 cccactccta gtgcaatgct tatggacatc tttcttcata tggngccaat aaaacttctc 300  
 tttgagtaag acaagggtct tgtctatc 328

<210> 30029  
 <211> 449  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30029  
  
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 aagatctatt ggaaaagtat attgaaaagc aaatcaaagc cttgctttta tagactcttc 120  
 atgtctggcc aagaggacca tttagaagag ttataacttt tagaaaaact taaaaccaat 180  
 ttgaaaaagt caaaaaccat ttgaagagtt acatcttttg atttatttag aaacaatcac 240  
 tggtaatcga ttaccaaata agtgtaatcg attacacaaa gcttttatgt gaaaggatga 300  
 gactcttcac atttgaattt gaatttcaac gttcaaaggc actggtaata gattacacaa 360  
 acattgtaat caattacagc tnttttgaaa tcaattggaa cgttgtaaata tcatttgaaa 420  
 aaaatagtgt gtgcatgcta tntcattat 449

<210> 30030  
 <211> 446  
 <212> DNA  
 <213> Glycine max  
  
 <400> 30030

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 atttaaccaa caactttgtg caagaaatcc ctacacacac acacacacat attaataata 120  
 aattgaaacc aacttaatta aaacaattta aaacattctt tttaaaatac aagcctttca 180  
 aaggggaaag gctccattac cttttaacat cataataaaa cttgtacaaa taaataataa 240  
 attcacttcg gtcataaca aggcgggtcta aaacttgata caatcaacat agaacctata 300  
 ccctaattgc acatcctatc ctatcagagc attgtattcc cgtgtgctct agcatcaggt 360  
 tcttcatagt catccaccta ttcatttgct cccactaaca ccacgttaga gatcatcaca 420  
 tgatccgaac acagattata cactgt 446

<210> 30031  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30031

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 gaatgagtaa tattgataga agaggaggag atatgagata ctacctgctg actttacaac 120  
 aaaggccaac atgggtaaag cttattggat atatggcggg aaacatatag cagacaacag 180  
 cacgaataag gagttcagcc agaccatagc tatatagata aaaatctcaa aggaatatac 240  
 caagtggat ctaccaacc catgcaaagg aaccacgtgt ccagtgatta gcctaacgaa 300  
 ggtatcactc ttggataagc aacgagtgat c 331

<210> 30032  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30032

ngccagctgg tagtccatgg acatgccctg aagacgaagt gttttacaat gcttcaatca 60  
 tttggggagt agtgggacca cagagaatgt ttaccaagga tgggatttac cctgngatga 120  
 attggttttt cctgattggc ctacttgctc ctgttccagt gtggctgctt gctcgcanat 180  
 tcccaaacca taagtggatt gagctcatca atatgccctt aatcattgct ggtgggtggg 240

gcattcccacc agccagatcc gtcaactaca taacttgagg atttgtggga atcttcttca 300  
 atttctacgt ttacagcaag ttcaaggcat ggtgggctag acacacttac atcctctcag 360  
 ctgctttaga tgctgggtgtt gctttcatgg gtgtcattct ctattgtgcc cttcagaatt 420  
 atgggtgtttt tgggtccaata tg 442

<210> 30033  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30033

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 cctttgctac tcataaaaat ataaagttat ttcaaagga cgttaaaagt gctttcttaa 120  
 atggctttat tgaagaggaa atatatgtca aacaacctct tgggtttgaa gatcatactc 180  
 ttccagacca tgctttcaaa cttaaaaaag cntgtgatgg tctaaaacag gaaccacatn 240  
 gctgggtgtga cagactgagt tcatttctct tagaaatggg tntattaaag tcaaagtggg 300  
 tacaactctt tctaaatgag aaagtggcan agatttcatt atagttcaaa tntatgttga 360  
 tgatagtatn tttgaagcta ctaatgaatc tctt 394

<210> 30034  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<400> 30034

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 gtgcatgtcc acttgtaatt ccaaagtgtc aaacctttca ccaacaaagg tttgaagacc 120  
 atcaaacctg tccaaaatct ttgaaagaag agatgaatct tctccatcat gtccttcttc 180  
 accaatatgt cgagcaccct ttttcaacca agagccatca tgctcttttt gataacaaaa 240  
 ggatgcaatg actgaagcgc ctataaggaa ggatctcttg attggaacat aggggttcaga 300  
 atcaagaggg atgttaaagt gttgaaggaa aagagtgact agatgaggat atggcaaagg 360  
 agcattcaat cgcaatgcct tatgcctgcy atatctaaca agaagtgccc aatcaatttg 420  
 tagaccttta tgataggccc acataacaat g 451

<210> 30035  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30035

tttgctaata acttataaca aatcaacgnt atatccttgt caccgaaaat attttatatt 60  
 tttttctcgt atccacattt actcgagatt atttcttatt ttcataatttt ctaataatttt 120  
 caaagaatgt gccactcata aagtaacatt ccaaattaga gataggcatt catctacttt 180  
 ctatgggaac attagtaaaa cacatganat tatntactat gtgttttaa tgtgccgttt 240  
 ggcatacat gaacaagggt cttcatatca cgtaaaaagt agataaataa aagtaaacia 300  
 ataagtatgg catatcccat tagtctaaaa gcaagggtta tatattcaaa ggtttatatt 360  
 ccattatttc atatgttcac at 382

<210> 30036  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30036

tggttcgagg tacttaccg ttgaagatcg aagaacgatg aagaacgaat gaagaacgtc 60  
 gaagaacggt tgaaaccttt gcgaaattct tcacagaaaa cgttacggaa acgtttcgga 120  
 agcgccctcg cttagatttt cttcacggaa acgatttttc caagcaaatt cgaaagagag 180  
 agaagtgcca aaggggctga acattttctt cttcacttcc tcccctattt atagcaaaat 240  
 aggggaggtg gttgccgccc agctcgccca ggcgagccag gttgcttctt ccagaagcaa 300  
 cagccttctg gaggaatatt ctagagggcc caagtgggcc tgggtgctat ttccaccccc 360  
 atttttacta agtacacccc cctctgctnt tttggtgatt ctttntccgt anagtcacgg 420  
 aaacttacga attccgtaac gatact 446

<210> 30037  
 <211> 509  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 30037

aaaagttggg ccttgttgan cctgagngct tttcggagat acanggcgaa gttgagcacg 60  
ggacccgtgg atactacaga gccgaccttc ttgcatgcga gctttgacat tggctaggan 120  
gcagatgagg catacaacga aactctgcgt atgagagtta aacaagagtg aatcataagt 180  
acgcatgcc aactgagtaat gatgaaaatg agaatcgaga tgctgaagat gatgttgat 240  
tggaagtatc aactgtggac ttggaacgta cagtgcgatg aatggctctt actctatgga 300  
gttagtatat gtcaaggact ggacaaaggc taattttcat gaccgaaata accctgtgaa 360  
acatgatgtt ctatctatat actgtttaat acgaacacag tgtgtgctat agatgtgata 420  
tcgatgcaaa gatgtgctag cttctattaa tgtgacaact tcttatagct acccatgcta 480  
tgataatatc atatacggat aataacgtg 509

<210> 30038  
<211> 428  
<212> DNA  
<213> Glycine max

<400> 30038  
tatgaggtcg gttatatatt cttctttca ccctatttga ggtctctttt tcctttcata 60  
agagaaaaat tgtaaatttt tagtctctca tttatatata taacacaatt tcatacaaga 120  
gaaattaaaa agacattgat ttatttctga aggattggaa gctaacattg tcttgacta 180  
aaactatatt tgacaccttt tattgcatga tcgctttctc taatatagaa tctaagttag 240  
tgtattgggt tagtgcaggt tctgagtgat cccagaaga gagcaatcta tgatgaatac 300  
ggagaagaag ggcttaaagg gcaagtgcc cctccagatg ccggtggcca tacattcttc 360  
caaactggag atgtgccaac aacgttcagg ttcaatccaa gaaacgcaga tgacatcttt 420  
gctgagtt 428

<210> 30039  
<211> 133  
<212> DNA  
<213> Glycine max

<400> 30039

ttcgagcgtc tccatatatt atgcgcctta atcggaagat cgagtgaaat tgtttgacca 60  
 tttgaatgct ccacagcctt ctatgggtcaa attcgagcat cttgaatttt atgcacctta 120  
 atcggacctc cca 133

<210> 30040  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30040

ttgaaaagtg ttgtttntca ccttctcgct acgcctttct actggcttag cgagcatccg 60  
 ctaagcgcaa cactcatggg cttagtcaa ggaagactct cgacgaagat gagttgcaca 120  
 ggttcgcaaa ggcactggtt tcactcact aagcacaccg cttcagtcca tacgctaagc 180  
 gagaaaggca tgtgctaagc caaaattcac taatgtgcgc ttagcgggtcc attattgtgc 240  
 taagcgcgatg agcactatca aggctaccta tataagccat aaatcatgat ttgtgaacgg 300  
 agtttgggct gtgattcaga gctttagatg gttagagatg ttatagagag aaagtctcag 360  
 ttctagagag ttttgagaga tttgttggt gatgatct 398

<210> 30041  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30041

agcttgtttg ttacaatgac attgactggg ctagagatga agatgatcag aaaagtacta 60  
 gtggatatat gtttttcatg ggaaatacaa cttcacttg gatgtcaaaa aagtagtcga 120  
 tatatagtca ttcttttgac ttgtaagcca aaatacctag cagttgcttc atgcatttgt 180  
 catgcaatat ggctcaagaa tttgttaaaa gagttgggca tgtcacaaga agagttacca 240  
 agatctttgt cgataattaa taagtcagtc attgctctag caaagaatcc aatgttccat 300  
 gatcgaagca nacatattga taccggttac cactacataa aggagagcac aacaagaaag 360  
 gatgtacatg cangatatgt gaagtctcaa gaccaagtag ttgacatc 408

<210> 30042



<211> 277  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30042

gggacgaggg caacccaaca ctatggctac attgcacacg aggggaacgcc ttaacgtccc 60  
 cgccaccact aggggaagaa tcatggtgac cagaacaagt tcccaaactg gagaagtagt 120  
 ggaagggttc accctccgc ggaggtgaga agtgctcca ccagcacgac acaagaccgt 180  
 cacactcttt gaggaagcgg acttgctatc gaaagcccca tggcgagtct cctccganga 240  
 ggaaccgccc atggagacga cccttagagt cactatc 277

<210> 30043  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30043

agcccggttt atgcttcac ccnaatttg nnanngacgg ngcgngnnn aagctatatt 60  
 acaannanaa ntaanatgnn tttccgaagn gggacataat tgggcgaagg ttgcctgttt 120  
 ttttctctct gccccggcgc cacatgccac atgcagggat ggtgggatca gtatttgaga 180  
 gattactatt aggagctgaa tttgagagac atgtgccagg aaaaagaggg agaaggataa 240  
 agataaacgg atagaaacct tataatgaat aaagtctaag aaatgttaca agtttgaatg 300  
 tgaccgtcta atgggtatga taaaaatctc aaaagttcga atgtgattgt ctaatggcga 360  
 tgatattcat attttctact aaaaaatctc atanaattta tcagaattta tttaaaaaaa 420  
 cattaaaatt gaaaactttt gatatacaaga gacttttata aatataaaaa tctaattaat 480

<210> 30044  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30044

agcttctcgt ttatgagaac aaatntcaat atcattcatc ataattggct cccaccaatt 60  
 tttcagattc aagtttacca cagaatgaca atgaagacat actgttaatt aataacacat 120

ccaaagcggc gacatattat cttgcaacca cttaagctta aagtagacct actattgttc 180  
 tccttttgga gaacaacacc canatattgt tcatacatTT cctcccaatc ataataagtt 240  
 gcaccagtaa ttggcctatc gtccaccctt aaaccaagct gtagtggtac atcctctagt 300  
 gtaattatac attatccaac aagaaaatga taagtgtgcg tctctggTca acaagtgcag 360  
 gcactagatg atgatcaatc ttgaagtgtc ataattttgt cacat 405

<210> 30045  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<400> 30045

agataaatag taaaaaagtg ttttaaaaca ttgagtagca caagaatttt tcacaaaatc 60  
 ttttaccaaa gagttctact ctctggtaat cgattaccag aaggtagtaa tcgattacca 120  
 atagccaaca ttgtttttta aactgattta caaagttgta atcgattacc atgagcatgt 180  
 aatcgattac caatatttta aagcgttaga tatcaaatgt cagaagtcac agatagtgat 240  
 agaacatttt caaaacagtt taaacttgtg taagcgatta cacaatactt gtaatcgaat 300  
 accagt 306

<210> 30046  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30046

agctttcata tttgaaaaaa aaatactaac ttttggctct tggaattttt cttctggctt 60  
 tctaagatat gaactggtaa gttgttctaa ataataaagg atatggtctc agattatttt 120  
 gcgcagttga aattcttgca tactatccag ttgcaatctt gttagcaagt agcaactaca 180  
 atgacactta tanacgatgg aaaaatctat ntgactactg ntgtgcatcc ccttctaaag 240  
 aattgtctgt gcctgtcttt ttgtcctgct tgtaagctgg acanaatgag gaatattctg 300  
 aattcattat ggatctactt cgtaagtcct taactgactn nttacttatt tctttgctgc 360  
 agggagatca attgcaagtg acagtaaata aattaacatc aac 403

<210> 30047  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 30047

aggaacggcg gataagaata gagagagaga ttatgtttct gggaagtgc tttattctag 60  
 tagccgcgtg acatgagcct tcgcattcgc ccagaatata ggaacaaact tggaatgggc 120  
 accaggcgca accacgtaag cccaattctg ttcaaacaat ctagtcccg gtgttactag 180  
 gagcaccag aatttttttc tggggcacc aaacacatag tggaagaata aaacaatgag 240  
 taaatagacg ttataaataa atagtattgc tatatataaa actaatcccg tgtttaagaa 300  
 cgctcaaga atttcgagcg aacctagcca gcaaaagttg atggaatttg gactcaaaag 360  
 aatggcggtg caattctaga ctatagttgc ttttgcaaa actaacgcta aacaatctat 420  
 tgggtga 426

<210> 30048  
 <211> 55  
 <212> DNA  
 <213> Glycine max

<400> 30048

agcttttttc atcttatcat tatcaaacag atggtcagac tgaacgaacc attca 55

<210> 30049  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30049

tatcatgatc tggaaaagta aaacaatgtc agttatatag tttagataat catgattata 60  
 tcagtaattt cattgcctcc aatatcatat aaagcattta gtataatata taacaatata 120  
 tggtaacata tgagagttaa aagcttacaa acatacgctt acaagggtcat ttcatatata 180  
 acaaaattga agataacatt caatggttca tcatcaaata ttgcatcata ttaatatata 240  
 cattttgaat aggcaacact tgcctctcag tcaaaatgca ttttcagcaa ttggatgtta 300  
 tctctaaaaa agttaagatt gtatcagact tagtagcaca ttcagcagca tgacaaaaga 360

cacaggataa ataatgcacc atangatcaa taccaaactg gaagagataa cttctcagtt 420  
 ttaaaggtga acactattat aat 443

<210> 30050  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 30050

agttagtaat gagtggaaact tgatttatgg tttagctcaa tttgacttaa aagaatgact 60  
 tagttcaaag cttgttacaa gtttaatatc aacttttatt ttttatttga attcagtttg 120  
 atttaaactt gtgagtaatt caatttagct cttttgttgg attggtttaa aactataatt 180  
 attttaattc ttttatttat ttatttattt tgtgaaataa aattaattaa caaactaatt 240  
 atgtcaattt actattttat atcaatttag tcatattaac acatgtaaaa ttagaggatg 300  
 aaattcaggg agaaatgaca ctggctattg gcgtgaagtg ggcgaaacag ccgaaaacct 360  
 gaactgggac atttttgcac cacaactagt acttaagtag tctttctg 408

<210> 30051  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30051

agtctttatt tttatttctt gacnatcttt aatgagctgg tgtaacagaa aatgataaaa 60  
 taatcatgta aggtccgttt tatacacaca tacatctagc gaattctaatt ttacatgtag 120  
 cggtttctcg acaaaatgca gatatgcttc tgataattgt tttggggtgc attgacaccc 180  
 atcaaaatgg gacaacaatt gattggtctg tcaaccatgc gcaatcaatt tattatcaga 240  
 taggttgcaa cgcattgatt ttgaatcctt gatcggtacc acacacgtgc cctatatgag 300  
 caactatcgt agagaccaag aactctttcc ttgaaataag ttccctcttt cctttctgta 360  
 gtgctttgct tgatcttcca ctcacggtga taaaaatctg actc 404

<210> 30052  
 <211> 419  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30052

gaccgctntc agttttatatac ctagtaaatac catagatang tttatcaaac cagtatacaa 60  
atggggacag aaaatgaaaa aaggtaagtg agctcaaact caaagaatgc ataatatatc 120  
atttcaaaat cagaaccact gaaccaccaa acattataaa agaatttgcc agatcaaaca 180  
tctagaatgg gtagacctta caagaacaat tagacgagaa gaaagtttca tgcagaatta 240  
atgtacaaaa tgcaaaaaca aaagacaagc cttcaaaacc tatggtcaga gacactacgc 300  
ttattggatg ttattcatga acttcagtat ttgttattag aatcatatag tttcaggagt 360  
cttattaata tgctatgta tcattgttat gtagcagaat tgtacaagac ctatcatat 419

<210> 30053

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30053

ttactcggaa ttggtaacta catttttta gctcgaagtt ttactgaatt ttgtagacat 60  
ttggaccaca attataaaaa aagaaccaag cgaattggat taaagaaaaa aactaaaaaa 120  
atcacacaag ttggatgaaa aatcagtgtc caggaaaata aaagtgaaaa ggaagtgtgc 180  
ttgttggttt aactcaaac tttttctata attgggtgcct actttatacc actcctagtt 240  
ctgaaacttc aattgaaaat aattatgaaa acaagtgcc aaaaatagagg tttcttgagt 300  
ctttttttcg tttctcttta ttaagntttc tactctactc tatagccttt ctagggtttgt 360  
ctttgag 367

<210> 30054

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30054

ctaattatat cctataaant tgctatcact tactacttac atacattcga agtacaccat 60  
acaaattttt gttgtttcac tcctatttat ttatatgcat attggaaagc taattacatc 120

ctgcacatat ttgcattcaa aaagggcatt ccacactatc atacattcat ttaagaaaac 180  
aattactcat actttgctag gaatttcatg ctctttatat ttacctatgt atacacacta 240  
ttgcaaggtg ttttccacgc tacctctatg taaagtatca aacatggggc agcccaaatt 300  
cgagcaaaaa ctctcacaag caaatcctaa ttttcatggt tttctaattc taaaacaaaa 360  
ttntggattc ctagccataa gcatgtttcc ttgcattgaa gctacaagtt tgggttccta 420  
agcttgg 427

<210> 30055  
<211> 417  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30055

gtcatgcatg ttatatacat gaaattgatt agactattat tttattcgac cggnaaaata 60  
tcatggacat tgaaaacatg gccacaaaag tcacctccat gaaaagttaa aagaatttaa 120  
ctaattccta taactaatat attttaagag taaattaaat cataaatctg caaattaaaa 180  
taaaaaactc aaaaaaagaa aacaactatt aaaaaaatc aatacataaa tatagaatta 240  
aaaaaataaa ttcataaaac aaaaaaatgg cacattgaga aattgggttg cgacatattg 300  
tgtagcaaaa aaaattaaag ctggacagtg agaaatcgga ttaggggcac cggattttca 360  
ttggcaataa tgatttgtat cacttttgat agataatttg gaacttgtat tatttgt 417

<210> 30056  
<211> 419  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30056

tgtatttctt gaggaataac tgtaatactt aattgggtgc acctacatgt aacaacatca 60  
ctttccccgt caacaaacat gatcaaatca acaactatta tttctacaca ttaggggtgaa 120  
aaagcactca atatttttgc tataacataa caaaagtgtt acaacaagag taaagtgatt 180  
ccaacttcaa cttttttttt tcaattccct catttcattt ggggtgcctaa ggtatctagc 240  
ctagagtcag aaactaattt ctcaagacac aaagatcgat tcaagggagc tgaactcacc 300

caacatanaa acataagaga ctcaatcact tcctaatttc catccnctaa taaaacatga 360  
 ttgttggaac aagtgaagta aaataactaa nagaattgaa aagcacctgc atgttgact 419

<210> 30057  
 <211> 276  
 <212> DNA  
 <213> Glycine max

<400> 30057

tgaacagatt tgataggagc tagggagttt accctctgat tcatataaaa aaaaaagaca 60  
 tcacatcatg cttaccggtt taataggcat ggaatagaca agtctctaag ttaacacggg 120  
 aagtgcgagg catgaagcgc caatcgcgag ggacaagtaa cccataacca tgaactgaac 180  
 atgaagaagc ctctaagtt aaaaataaag cgcaagacgg tgggataaat tgggattagt 240  
 acagcgttgt aggccaaaat aaaacgaaaa gcggaa 276

<210> 30058  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30058

ctgctactta tatatcgaga cgatcaaat tgaacaacgg aagctctcgt gaaattaaaa 60  
 tggtcataag ttttaactcg gatgtccgat tcaggagctt cacatatcga gatgcacgaa 120  
 attgaacaat ggaagctcta gagaaattct aatggtcata aattttcaca cggaggtcct 180  
 attcaggcgc ttaatatatc cagacgctcg aaattgaaca atggaagctc tcgagatatt 240  
 caaatggtca taacttttca ctcggatgtc cgattcaggt gtatcacata tccagacgct 300  
 cggaatngat tagcggaagc tctagagaaa ttcacatggt cataactttt cacacggatg 360  
 tcctattcaa gcgcttaata tatcgagacg ctcgaaattt gacaac 406

<210> 30059  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30059

acaagtttct tcacaaataa ctatcatgtt gtctgtttac tagcaagact acccatcata 60  
tctcccaaaa ccccataccc acgaaattta agagagaaag aagtcacccc aaacctgaat 120  
tttcgaagtc ccactcgtag ccacgcactt cagacccccg aaaatgccct cctttcgga 180  
tttggggcag aaatgatgga caaagggtga agctttgctt ggagcttcaa tggagaatga 240  
agaagaagaa aatggcaacg tgagggagag agagagctgt ctganaaagt gtggtgctga 300  
gtgaagagag agaacagctc tctgggttta aataaaaggg tttctctttt ctattatttt 360  
attaagcatt gcacatgtct catttgagt 389

<210> 30060  
<211> 343  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30060

tagctttgtt tactttattn ttggtaagag gctttacata ttatatacta agatatctgg 60  
ttgaatcttc catttcttat ctatggtctt gaacacttac gaagtctacc agtggtatgc 120  
taatcatgtg tatgcaattg actagatgaa actagaagga atttggtaga ttggcctaaa 180  
cgatttaaca ttatttgtgg cattgctcga ggacttcttt atctncatga agattctaga 240  
atgaggattg tacatagaga tctgaaaacc tagcacattt tactagatga aaatttcaat 300  
ccanaaatat cagactttgg cttagcacga gcattcttgg gag 343

<210> 30061  
<211> 419  
<212> DNA  
<213> Glycine max  
<400> 30061

aaagtctcac gattgtcacg tgctcatgca ttatttggtta gtcgtggcta tacgagacat 60  
cttgcgaaac aaagtcaggt tagcgataac tcgcttggtc ttttcttcc atgctatatg 120  
tagcaaagtc cttgatctag tcaagtttga tgagttggaa aatgaggccg caattatact 180  
gtgccagttg gagatgtatt tcccccccg ctttcttga catcatgatt cacttgatta 240  
tgcactctggc cagagaaatc aaatgttgtg gtcctgttta tctacggtgg atgtaccag 300



ttgagcgata catgaagatc ttacaagggg atacaaagaa tctatatcgt ccagaagcat 360  
 ctattgttga gaggtacatt gcagaagaag ccacttgaat tttgtcataa tacttacag 419

<210> 30062  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30062

agcttatatt cctattgtcc tatagaggca tttcattcct tctggagagt ccactagctc 60  
 tatgatagtt gtcacacctc tgaacatatt cataagcatc cttgtgcaag gtaagccaat 120  
 aaaaactaga ttgaaggacc ttggcagtag tctctctccc atcgtaattg ccttcacaat 180  
 gtgaactatg gcaatgccac aatatgcttc ttgctcccc ctaagttaca catcttctca 240  
 agagattatc tgctccaatt ttataaagat tgggatcccc ccacacaaaa tatttagtgt 300  
 ccttgacaaa cttctttttt tggaccaagt gagatcatca ngaaatgcac caattgcttt 360  
 gacactagtc atctcagcag accatggcct tctacaatg 399

<210> 30063  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30063

tggtcttcgc cagtgaaggg atcaatgtgg ttcttattta tgcaaatang atcatcctac 60  
 tatgacgact gagaaaactg gggcaaataa agaggggtgag gatgaggcac aaacccatgc 120  
 tgtgactacc attcctgtac ggccaagttt cccaccaacc caacaatata tttactcagc 180  
 caataacaaa ctttctcctt acccaccacc cagttatcca caaaggatcat ccctaaatat 240  
 accacaaagt atgtctaccg cacttccaat gacgaacacc acctttatca caaaccagaa 300  
 tacaccaacc aagaagcgaa ctttgcagcg agaaagcctg gaggaatcac cccaattcca 360  
 gtgtcctatg ctgacttgct cccatatcta cttgataatt caatggtagc cataacccta 420  
 tccaacgtta tca 433

<210> 30064

<211> 251  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30064

atgggtaata atctgcataa aggtgtgaat gtgtgtggta tgtttgggtt agttcaattc 60  
 ttggtgcatg gatngagatc ccacattgac tatagatatg gctaaagtag aaattataaa 120  
 ggctggggaa atcctcacct catgaagcta gctttggagt ttgagtcaag cttatctcan 180  
 attcaagatg gtatcagagc ctatcataaa ttcgatattg ggccaccctc aactgtccaa 240  
 aaatctacat g 251

<210> 30065  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30065

aacctcgtgt aggcgcttca cgcncgcat gcgctttttt cgcgtncttt gcgcgcgcga 60  
 gctcgagcgc ttctccatc ggatctggcg cggccgggtg cagatctggt ttaactgtca 120  
 ccggattcac caccgcataa cggcgccggg aagttgcgaa atgcaaagt aaatgcgaat 180  
 gcgggattta aaaggagtga gagggaggtt cagtggagt tagtgagaga gagagattgt 240  
 gaatttagtt agcggaggcg tcaaatgag gggagaggtt gcggtacgag agagaaagag 300  
 aatgatgacg cggaaatgaa atgaaatgga aaatgatttg aaaactatgt tttatgctat 360  
 ggggctgccg tgcttgaaaa ttaaccacta ttagtattga gtgatagttt gttgggttgg 420  
 gttgctttta a 431

<210> 30066  
 <211> 478  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30066

cgggccggtt cctatgccat gaatatctag gcaattcagc tcgtaccgg ggatctctaa 60  
 agtcaacctg anggcttgca gcttttttac attattgtga gagtggttga cagaaatcaa 120

aagcttattt tggaggcccc ttttttaaaa aataaaacat ttaaaattga aaatgatggg 180  
 ataaaataaa aatggtttgg cactggaagt aaacgtggag aatgggtatt ggattactga 240  
 tttggccctt taaattttta aaatctgaat cagcttaact caagaaaaat ggtggtgggt 300  
 ttgcctcaga tcaagccttc tagtgaagat gtgatggttg ttacagtgtg agcatcaaga 360  
 gcactttcaa acaaatgacc aatcaggcaa aagagaactt gaatgattac tctgtgtgtg 420  
 tgccctatgc gactgatctc tgggtgaaca gatctcatat ctttatgatg attgacan 478

<210> 30067  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30067

ctacaagaga agatacaaat tctaagaaat tctttaattg tgtgatgaga atatgttata 60  
 ccatgaactt attttctaaa atttttgcaa ttggtataat tgaagccttg cttgattcct 120  
 gtttttcttt ttcttttctc atttatgttt tgccaaggca ttttttctc atttattatt 180  
 ttctgtcatt gcattgagat cgtaggcata gattcaatct tttcctctaa gtacacacat 240  
 tctaaaacag atttttaatc aactgatgag aacagggttat accatgcac attattgtta 300  
 gaattcatgg ttcagttcaa gatagaagag agaattgaga aaaaaaaaat tatatgtata 360  
 ttaatattct taaatgagta cccaacaagt atataccana gattccctat gagatgatga 420  
 ttgaaaagaa gtctag 436

<210> 30068  
 <211> 117  
 <212> DNA  
 <213> Glycine max

<400> 30068

tgattctgat ataataatga aaacttgaat agtgatgatg attcttgtac caccacagct 60  
 ttactagga aatcctccaa agtcatttcc tcaagtgttt gcttgctttt gagcagt 117

<210> 30069  
 <211> 444  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30069

aatagattta gttagtcact ctacttgcaa aagagagatt ttctagcttt ctaggaactt 60  
agacgttgat gaactttgtt taagataaat tgaaaagtat tcctagaagc tatcttatga 120  
aagatagaca ctccaaggta ctttccaaga tccttagtcc aagcaatacc catttctcca 180  
cttagttgat ccttgacttg agtctccaca tttttggaaa agaacattca agatttctcc 240  
aagctaattt tctgcttaga actcttgcaa aataaattca aaatattctt gatagaatgg 300  
acctgctcca ctaaagcctt cataaataaa ataaggctgt atgcaaaggc taagtggatg 360  
ataagtggac catgtctaaa aagacgaata gggcaccaca ctctntggtc cacaacaaca 420  
gagatcaatt gaaacatatg ttca 444

<210> 30070

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30070

agcttttgatt tacacagagg gtttcaggga caaagcttcg atttacctat tgaatttcat 60  
ccaatttttt gacaagtcac tgttacttcc atgaatattg atattgtatc atgcttaatt 120  
atatgcattt gattattctg atcattgtgt gttgtgtgat tatttcttcc atgcaggtag 180  
atgattccta tttgttgtga gaggtaaatg atgggcagca tcaccaactg aggtgagttt 240  
atatttcctt ttttttgtct ttatctttgt tagttcgtaa tatagttttt attttatatg 300  
tttgagttct acatgtgtaa aaaatagaaa tagacaggtc tgggtgattgc ttangaattc 360  
cttggtgttt catggcattc ctntgaacc tcanaagggtg cttatga 407

<210> 30071

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30071

gctgcacat tgacagatnt acttagtaaa gaagcattct tgttgtctcc agaggcagag 60

acaacatttg ttcaattgca gaaagtcacg acttcagctc cagtgttagc tcttcctaata 120  
 ttccagctgc ccttcattct ggaaactaat gcttccgaca ctggtattgg agtagtatta 180  
 catcagaatg gccatccaat agcatttttt tccaagaaac ttgcacctag agtgcaaaag 240  
 aaatctgact aatttagaga gatgttagca attgttgaag ctatagctaa gttcagacac 300  
 tacttgctgg gacacaaatt tattatcaaa actgatcaca attagtcaga tgatgatgtt 360  
 gatggatgga acaaccgcta cagacacctg aacaacaaca gtggttacac aggttttttg 420  
 gatatg 426

<210> 30072  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30072

agtctttttg aaaagattcc taaagaagct agagcttagc tacacacacc tctctaatag 60  
 ctaagctcat ctnccttgaga tgagaagctg gaacttagct acacaccccc tataatagct 120  
 aagctcacc ccatgacaaa atacatgaaa atacaaagaa nagtccctac tacaaagact 180  
 actcaaaatg cctcgaaata caaggctaaa accctatact actggaatgg ccaaaatata 240  
 aggccataac gaaggaaaaa tacctattct aatatttaca aagataagcg ggctcact 300  
 tagcccagg gctcanaatc taccctaagg ctcatgagaa ccctanggcc ttccttgga 360  
 tctctggccc aatctacctg ga 382

<210> 30073  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30073

gggctganaa tatataacaa caccaaggat ctacttttat ctctcctctn tcgttttttag 60  
 ttgtaggctt ctcttcttct tttagacact cttagccaga agtagcaaga aaaaaatatt 120  
 tgttttgtaa tcaaagtttt gattagtgga tgtggaagta atgctttcca agattatttt 180  
 gatgatgcca aaaactcaag tcaagaatca agagtcaagc aagtttcaag aatcaaagag 240

tcgttcaatc aaagcaagtt tcaagaatca tagagtcggt caatcaagat tcaagattca 300  
agattgaagt aaagaatcaa gagaagactc aattaagata agtattaaaa gagtttttca 360  
aaatattgaa tagcacaatt ttgttcaaga gaatctttca aagaacaatc ttttaciaag 420  
agttgtactc tctgataatc gattac 446

<210> 30074  
<211> 387  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30074

agcttgtatc attngactta tatgctctag cttgagcgag tgttgggaatt agtagttaaa 60  
tgcctttcag atacaggtac actattcttg tacctagaat ataccgtgca tgtactaagg 120  
aactaaaatc atcattaatc tccttataaa caaaaaacag tgtatataaa tactagatca 180  
gctgaataac tcattcaagc tattagaaaa gtcattctcg taatccctaa naattcctca 240  
tgtaataaca ttcaaccttc caacaaatgc atatggagga tttcacattc tcaattcatt 300  
gatcttcatt caagtgtac taaatctcaa aatatantaa atntatgtct ttggtgcatc 360  
tatcattgct taatcanggg gttatgc 387

<210> 30075  
<211> 447  
<212> DNA  
<213> Glycine max

<400> 30075

caagatgagc ggtcatcctt gcagcccata attcggttctt ctcaccatca aaaattgggtg 60  
gtgaacctgt tgtgtatgat gtttctccct ccattgattt ctctcaactc acagatccct 120  
taaagataag agctctgata ccaatttggtt gtttttggtt aataacggta agcagaaata 180  
ttaaagaatg aaaggagcg taaagaaaga aattgagact acaaaggctt gttttattct 240  
gatatgaagc aacgtattta aaaacatgaa aggatagtaa cggctaacia aaagataaca 300  
ccactaacag atcatgccta gaaaatagga tcaaaactaa tttatcctat cagtcaacat 360  
gactgttatt tttccttaaa aatagcacia gaatcttato tactatagtt tgtagacag 420

tttcaacagt cacatcttaa taaatta

447

<210> 30076  
<211> 326  
<212> DNA  
<213> Glycine max

<400> 30076

gtggtaatca gagcacaaga gcttcaagta ggtgcttctt aaaccctcat taattttttt 60  
ttccttacct tctcttccat tgttggttct tcatTTTTct ccacgtatct cctcacatgt 120  
cttggttctaa atgttggttaa catgaatctt tatagtttcc accgattaaa cttgctatag 180  
aaactaaatt tgattttcta tgggtcatat ctcttggtct tggctctgaa ccatgaattg 240  
tggtgagttt atgttccttt gagctttgtc ttgttatttt tgggtggctga aacctaaacc 300  
ataaaattct tacaaaaata tttaaag 326

<210> 30077  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30077

ttagaggana ctcaatcacc taaatcatct gcagcatttc tgtggttaaga gaatccgaag 60  
taggtgcatc agaagctcat atcatggctg aagatcaacc acgaacgggtt actcttgaag 120  
attattctag ctcgatcgtg ccacaattct tcacaagcat tgcgcggccg gaagttcagg 180  
ctcacgtcat cacatatcct caatccttga ttcagctgat tcaaggagat ttatttcatg 240  
gattgccaaa tgaagaccct tacacacact tggctactta tattgaaatc tgcaacacag 300  
taaagattgt cgggtgtgcca gaagatgcag tgaagctcag tttgttctca ttttctttgg 360  
ctggagaagc taagaggtgg ctacactcat ttaagggana caatttgaag acttgngatg 420  
aggttgtaga gaag 434

<210> 30078  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 30078

tagctgctaa actaaaatca attgagggaa cctccccag tattccatt gaaaaacctt 60  
tatatcaacc tttcaaagtt agtgaaaagg ctaaacgaaa aaattaggga cctataaaaa 120  
actaattctt aattgaaggg cgacgtgata accatagtga aatacttaac aagattgata 180  
gtttacttaa aggcatttca gatactcccc aagcctcgga aaatactttc aaaatggtaa 240  
caagaagtac cctccaatta attaatgggt ataatgaaga tagtgaccac agctcagaat 300  
acacacactg agataggatc agtgtcagaa aagaatatan atccantaaa ttccaacacc 360  
tgagaacacc cctccaaata tattatcaac n 391

<210> 30079

<211> 436

<212> DNA

<213> Glycine max

<400> 30079

atccaagtaa ttcttgtggg tgaagctcct tcttcttgtt ctattcccta gtggatggtg 60  
cgteccctct cctcttctcc tttgccttcc gctgcatctc catggtgaaa aatcaccatt 120  
gaaggacctc attggagctc aaagatccag cctccataga atcttcacaa gcaagtttcc 180  
atcaagtggg aatcagagca caagagctac aagtaggtgc tccttatacc tccattaatt 240  
tttttgcttt accttctctt ccattgttgt ttctccatgt atctctcac atgtcttgtg 300  
ataaatgttt ttaacatgat tcttttagagt ttccaccgat taaacttgct atataagcta 360  
gatttgattt tctatggttc acatttcttg ttcttggctc tgaaccatga attgtgatga 420  
gtataagttc ctttga 436

<210> 30080

<211> 346

<212> DNA

<213> Glycine max

<400> 30080

tatcttgtca ttgtctacgc cgaagacgaa ggatgacgat gtacctttct ggaaggatgg 60  
tgaacaacga cccctaagaa gataaagctt gctgggaggt tgctgctgac acgggacacc 120  
atagacttca ccgaagaaaa cgttctttga aactgaagaa gaagagaatg ttgttttatt 180



agatatatta acttttattt tatgaatgaa ggggtattcta tgaagctcat tctattgctg 240  
 ggcgcacccat caattctggt ggggtgcacct agcaacagcc aggtgaattt cgcgcctatg 300  
 ttggcctcct ttcccttaac caatgagtgg tcctccaatt gagcat 346

<210> 30081  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30081

tcctagcggg ttctaattat atggacctat aaatctatat atgctgacaa tagacgagaa 60  
 gttcgtggat ctctctcngg gggagtaggt gtccgccatc gctttggcct tggctagctc 120  
 ttcataatg gattcctttg catcttgga gatgaatggc aatgtaatgg agacaggaag 180  
 agagagagga gacgccactt cagggagaag atgagtctag aagaagctca ccaccatagg 240  
 aggccatgga taagagcttg gaggaagaaa gagatgaatg aagggagaag gagagaagag 300  
 cacganattt tgtgctctaa atgagctctg aaatctgaag tttaatatc agatgatcaa 360  
 agttcaaaaa aatgcacaca tatgacctct atntataccc taagtgtcac accaaattgg 420  
 a 421

<210> 30082  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30082

tgcttatatt aacaaaattg ccttaatcat ttccaaatat gcatgtgaat taagatgcat 60  
 caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaac acaccaaag 120  
 attataatga tggatggctc acattctcac aaaggtaaaa tcatcacttt caaattgagc 180  
 tttcaaaact atcatgacat gtagagaaga atcaatgatt tcaagtcaca aaatgtcaag 240  
 aacttttatt ttcaaaaaca ttaccattt cttgaacata tcctataatt caaagaaaaa 300  
 catgcaaagt cgtacgtgca cacaaaatng acccanaata ttaaactgaa gatccgacga 360  
 aactaacaac atttacagag ttacacaact aacanattaa caaaaccaac 410

<210> 30083  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30083

nttgaaatca aacttttcca ctggtaatcg attatattga ttatggtaat cgattactag 60  
 agaataaaaa ctctggtaac ttagaaaatt ttgagaaaaa cttttttgaa aaacaaaatt 120  
 gggctatgtt tgttttttga aaaatctttt caatacttcc cttgtgaagt attcttgatt 180  
 tcttctcttg aatcttgaat tcattcttct ttgaatcttc ttgatttaat cttgatcttg 240  
 aacttgttga ctcaatcttg aaatcattct cttgggcttt ttgtcatcat caaaactact 300  
 tgaatcaact tgattcatca tcatgaagct tgcttctaca ccaaccacaa agtcaattac 360  
 agactaagcc ttgtcttgga tatttagatg cagaaccatc ctaattagaa tccactgcag 420  
 aacaata 427

<210> 30084  
 <211> 276  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30084

gatgccactc tacttcaaat tcttgaagga tatggtaacc agggaaacata agtatattca 60  
 ccaagaaaac attataatgg aaggaaattg gagtcttggg attcaaaaga acctttcacc 120  
 ccaacctaaa gaccttggga gtataactat tcctttgtca attggagaag tcactatggg 180  
 aaaagctctt attgacctgn gagccagtat aaatttaatg gtgctctcca tgtgtaaaaa 240  
 ggtgggaagc gtagagatca tgcccactaa aatgac 276

<210> 30085  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30085

eggagcncna tgaattgagt tttcgttatg cttctctacc ttcgagtttg gagccatgcg 60

tagtgattgc ttagtgcaat tctccattct caaccctttt ttcggagccc catgaattgc 120  
 gttttcgttc atgtgtcctc caccttcgag tttggagcta tgcgtagtga ttgcttagtg 180  
 caattctcca ttctccaccc tttttcggag cccatgaatt tcgttttcgt tcatgtgtcc 240  
 tccaccttcg tgtttggggc catgtgtagt gattgcttag tgcaattctc cattctcaac 300  
 ctttttcgga gccccatgaa tttcgttttc gttcatgtgt cctccaccat cgagtttggg 360  
 gctatgcgta gtgatggcct agtgtaattc tccattctca acctttttcg gagctccatg 420  
 aattgcgttt tc 432

<210> 30086  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30086

agctttaagg ttttangacc ttaaattctc ttaaggtgcg gatgtggagc ccaactgaaag 60  
 tgagaacacg tagccctcta aagtcggggg cgggtcacc tttgaaagac gaaggcgccc 120  
 agccctctaa aagcgagggt gtgtagccca ctaaaggaga ggggtgtgcag ccctctgaag 180  
 gcgaggacgt gcaaccctct aaaggtgaag acgtgtagtc ctctgaagggt gagggcggtg 240  
 ggccctctga aggcaaggac atgtaatcct ctgaaagcga gggcggtgcag ccctctaaag 300  
 gagaggggtg gcagcctcat gaaggcgaag atgtgcagcc ctctaaagggt gaggacgtgt 360  
 agtcctctg 369

<210> 30087  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30087

tatgcccag tcatctatcc ctatgagatg ttgttgattt attggcgatc agaattgcc 60  
 ttgcttggat tacgngttg aaccaagctc atgcttttac aaaaagggtc atcaagtcaa 120  
 gttgaaatat ggaagtaacc gtcttgcaaa attggggcaa aagatgaatc gagtcacatc 180  
 actgcttcgt ttactgcaa acatatttag gattgtttat gtccttggtta cttccagttt 240

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2
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<400> 30088

<210>	30089
<211>	431
<212>	DNA
<213>	Glycine max

```
<223>      unsure at all n locations
<400>      30089
```

12549

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431

<210> 30090  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 30090

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tcttggcatt aatactggca cccaatccac catcatcaga ccaatctctt tcgctgtctg 120  
acccaaaaac actctcactc tgactaaaac tacttggact tgctgggatt ccgggtttct 180  
gcttgctact tgagcctggt tctaaagcat tttccaattt atcacgaagg tttaaaaact 240  
tgtgcttctt ccttttcgcg cgcaattcgc ttagtacggt ttcctttgaa gccgtcttct 300  
agcatgtcta gccgaggaac gaaccttgac agaagaagga tgatgagatg aatctgcagt 360  
agtagtatta gtagtagtag t 381

<210> 30091  
<211> 445  
<212> DNA  
<213> Glycine max

<400> 30091

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tgtacagggg tattttaagg ctactccact cgatcgagtt tatattcaca ccagccattt 120  
ctattttcga tatcttctca gcacttcaga ataacaactt gcattttatt ttcttttgct 180  
tttgaggcta aatcaggcct acggatatgc ttacagcgtg tagttctgcc atctatctat 240  
cacaagagaa agagaagcgt tacactaagc tagtattaag tatttaattt aataataccg 300  
tgaagggatt ccgaatttat tcattgaaag taaaacatac aaaacgggga cgatcacata 360  
cagaggacca gttgaaagat gtttctagtc tagctctcaa cagaccaca ctggaaagat 420  
gcttggtggt tgctggcatc tttcg 445

<210> 30092  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30092

agcttgtant cattgtctcc acgccacatc tgtaaataaa atttcccacc ctaaccaagg 60  
agattgtgac catcaaggct gatcaaaaagc aagcacaata atgctatgct gagagcctga 120  
aggtaacacc ctatcctccc actagggagc ttgccaagcc tcaccctaca gcggttgaag 180  
gtactcaagt catgaacaaa gggcttccaa tccgagcctt cattgtttac caaacaagcc 240  
tggacgatga atttgatata gatttgtggg agaacacttc tgacagaggc caaaagccca 300  
tcgaagagct tgtcaagctg catgtaagga cctcactagc cttgaacaca agcacatcat 360  
tgatgtccta tacaagaaca tggacctgtt ctcttgagc catctgacat gccgag 416

<210> 30093  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 30093  
tccactatgg cgtagcccat agaattctatt ttaccacagc tatcaaggaa tgtagatcc 60  
attttcaatt cagttcccaa caaatcctca tcattctagt tgttgtacca atgacgacga 120  
caacaacaac tattggagca tggaggatat ctggtcaatg caattagcca attactgaac 180  
gggaattaaa cctataaaca taaatataaa taatatatat aaacctaagt gtctaagtcc 240  
cataaattaa gctgtagtct ctggcttaaa acatgttagg tttgtttata caagtagttg 300  
gatgtttgga gtacttcggc cttttgcgta ccatcaatat ttaagaacta agttagttat 360  
gctccgtaac ttatgggctc ttaataaact atatctgcac aaaattatat atatatc 417

<210> 30094  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 30094  
agcttttctt atctctctgc gttgcttctt ctagagggtg cttcaatttc taaatccaat 60  
ggaaccaatt cacctgcaga agatctacgc atacaaacac taacaggaac agcagttaac 120  
caattcaaga agaaaataaa ttctgaacta aacaaatatt aacaaaaaat aattaataaa 180  
tcaaagaata atgaattaat gccttcaaac tgaactcaac tttccaaatg gaaaaagttc 240

cccggcaacg gtgccaaaat acttgatggt cgcccctaag aatactactt atttgtgtgg 300  
 ggcgcagaatc taccggcgag tgcacgggat cgtcaagtaa ataattaaaa cgaaataagc 360  
 cgaatatcga acaca 375

<210> 30095  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30095

gagagtgcct tgaataagaa gcctagtgtt tttctctaag ggaggaagac aatgagagag 60  
 agggatgggg acgtgcgaat tgaaggagat tanggagaaa agttaactt tgaagtttgt 120  
 ctcacatggt tctcattcat caaaattatg gcaagtgtta cacatgtttc tatttatagc 180  
 ctagcacagg ggaaacttcc taacttcctt gagaagcaag gaaggtagct tccttgggaa 240  
 gctagaggaa gatagcttcc tagagaaact aaaggagggc tacttacacc catccaatag 300  
 ctaagctcac ccccatgcc aatacatga aaatacaatg ggaagcttcc ttgagaagca 360  
 acgaaggtag ctttcttggg aagcaacgaa gaaagctcta gaggagggga aggacta 417

<210> 30096  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30096

agcttgtctc atagaggtcc aggaaggata aggcggccga agggactagt tccgctctg 60  
 agtatgacag tcaccgcttt aggagcgctg tacaccagca gcgcttcgag gccatcaagg 120  
 gatggtcgtt tctccgggag cgacgcgtcc agctcagga caacgagtat actgatttcc 180  
 aggaggagat agggcgccgg cgggtggacat cactgggttac ccccatggcc aagttcgatc 240  
 cagaaatagt ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300  
 tgangtcctg ggtaaggggt cagtggatcc cgtttgatgt tgacgctatc ggccagctcc 360  
 tgggatatcc attggtgttg gaagagggcc aggagtgtga gtat 404

<210> 30097  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30097

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 tggatgaatg caagagtagt tttcgaaatc tgcactttat gcagaatttt gctgttgaaa 120  
 tgtgcaacag aattttgtat aagtgcagaa aaatgcttgt gtatggctgg ttgtgaaaag 180  
 ggtagtacat atcgggttct gaacatttgc tagcagatcc caacggtcaa aatgtagact 240  
 tatgtactag agactgccag taaaattttc gagtcgatcc aacggttaac gaattggaac 300  
 gaaggaaacg ttactggggg atttgtatgt gaaaagctgt gattntgagt tgtgttttgg 360  
 gcagagtttt cttgcctttg cctgttttgc ttggttttgt gagtccatga tgattggatg 420  
 tgg 423

<210> 30098  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30098

ttagtaatga cccactaacc tagaattaaa ataacttaat gccattaacc ctaggaatta 60  
 aaaaaaactt aatggctgaa tgtaactgaa attgtggcaa ccaaaagtca cccccaatag 120  
 ccaacaagtc agccaccatt tgggtctocca aaaggctgat gcctangttg ccaattgggc 180  
 ccttattaca acttgaacta aaccttaacta aagccctttt agttgattaa cccaaaacat 240  
 atttttggtc agccaacttt acaaggattg ggccattatt tagacagact aaacactcta 300  
 aaattgaaac aaagtgggtg catttaatcc tccttcattt gggccatgat acaactcaca 360  
 accttttggg cttttctc 377

<210> 30099  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations



<400> 30099

gaataggaag tgttatgggc gaaacttcct gcngttattg ttgaccacag agtggtacct 60

ggagatatgt cgcaggggtc acgacacctt gaggacgtca ggtgggggtgc tattgcccaa 120

aaccaagctt gaccaatccc gacccaaccc gggcatagtc ggtcagtgag aacctgcat 180

gtacctaatc aggcgagctc ctgccagtca acagataata ggaaaactag accacaaagc 240

aaggaggctt gtgggtggctg gccagctgtg aattttgtgt aatatgtgga ttgaggcctc 300

tggtaatcaa ttactaagggt tgggtaatcg attacaacgc ttattattga agacaggagg 360

ctaagatggt ctctggtaat cgatt 385

<210> 30100

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30100

agcttttcat aaaagccaaa ctaagcaata aagtacctcg tatttttccc tctgcctccg 60

gttgctgtgc aatcccttct acagcttgcc ctgcagcagt gccttgacca accccaggctc 120

caatagaagc aagccctacg gccaaaccag cagcaataac agaagcagca gaaataattg 180

gattcatgat aatttcctcg taacctaaat ataaaataaa gaaatagtta atgatataat 240

caaccaataa attatgactt aattnttcaa ttatcaagat ttattcggtt taaagtaatt 300

aataagaatt ccgaattgaa aataataata gttattgaac tctacgaatt acttcgagat 360

ttattttttc gtctctacct acatacatna gttttttttg tgaatatgt 409

<210> 30101

<211> 410

<212> DNA

<213> Glycine max

<400> 30101

agcttttattt agctaaaatt gaccttaaaa taaggggaaa aatcttttga tatatgaaat 60

aaacatgtca cttccaaagc cattcaagtt acataattaa ctttttttca aataataatg 120

ataataaata tctaatacgc atcaatgatt catgagcact taatatcaca tccaatctaa 180

aatcttagca cactaaatct tcatcgatga tagtgaacta tacaaataaa ctataagtga 240

cattaattct tgggtgtttt ttctaagaat gtattttgtg aaaattaaat ttaacttttc 300  
 tcttcacaaa ctcaacgtgt gtatcaaag atacacctat tagattgcac tgtaccagac 360  
 tagtttaatt ataaaaaaaa aaatcctcat ttttcttttt gtttggttc 410

<210> 30102  
 <211> 495  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30102

cgaccggcgn nttatacttt cgcttgactt acgtgatact tagacacccc accttgctgc 60  
 gatagagagt cttactgttt attgcatgcc tatatagctc tacaacataa ttaagagtcg 120  
 tactaaaaaa aaggtaaaat ctattaagag agtcttactg tttatgtcat aatttataac 180  
 ttttattacg aattgggata tatatatata tatatatata tatatatata tatatatata 240  
 tatatatata tatatatata tattttgcat gagtcataac ctcataagggg ctgattttat 300  
 tattgggatt atcattctat tttattttga aaattgtctc tttttctacc tcgcgcttaa 360  
 gagaatttct tatactatct acttctcttt acagcactta ttgcctcctt ttctatcata 420  
 actcttgata ataccactgc atcgctgtct aataatatac catgtctgtc atatagccct 480  
 tattctctcg agacg 495

<210> 30103  
 <211> 295  
 <212> DNA  
 <213> Glycine max

<400> 30103

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 tggggccacc ccctgatat tggaaggcga ccaactgtgc cagcacaacc agaaaggga 120  
 gctatcacgc agctactatg cataccgggg taagatttca cccatgccgc tgcaaagaga 180  
 cgagtgtgga tcatgtgtac cgacatgacc ccttttacac agatataaat gatgttgcta 240  
 cttagcaaca ttcttgccag cgaccgcaat accgatctcc cctgcccga gtatc 295

<210> 30104

<211> 438  
 <212> DNA  
 <213> Glycine max

<400> 30104

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tccaccgagt gataaatgag aaagagagct ttcttgtctc tctttcttga ctacttcaac 120
gtctccttta caccttggct tagcgaggct tcattcttgc cctcgaagcc attctctacg 180
atatcccaca catcttgagc tcctagtagc gccttcatct tgatactcca attatcatag 240
ttgttctttg tgagcatcgg cattcggaag ggaaaacctc cattcgccat cttttgagga 300
tcttgaagct ctgataccac tttggtggaa ataaggctct ttatgtctat gaaaagcgtt 360
taggaatatt ggagactctg aatagacact tgataggaag gagaattctt tatggaggag 420
agaactttgt acttttgc 438
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<210> 30105  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30105

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tgcccgctgt tgagttgttg cagttcgcg cactttgtca attaaccatc ctctacacn 60
nngaaaatat gatgacatag ccgctctata gtatttatcc tcctaacaaa taaattcgag 120
ctggtggacc atcttctact aactctgact tacaacagta ttcctatccc tcatccatt 180
cgcacctaaa gcatgtgcac acaaaaaaat ggaagaagt gaaaaggaga tcttggagac 240
ctctacgaaa gtagaggcta acataccttt attggacgca ataatagaaa ttgccagata 300
tgctaaattc ttgaaggaat tgagcaatct catcggaact gataggaagt gaacgaatat 360
tatgagcaca aatgcttcgt atcattggaa agcagctccc aatccctgaa aatgtaaaaa 420
ccatgccatt atcatacctg attaaggagc tatgtttgac agcccgctaa ttatgactcg 480
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<210> 30106  
 <211> 290  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 30106

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cagaaaacca ttaaaagaag tataactttt aaaaaaacct tgaaaccatt ggaatagtta 120

catcttttga tttttattca aaacttatca ctggtaatca attaccaaatt cattgttaatt 180

gattacacaa agcatttttg tgaaaggatg tgactcttca cattttgaat taatttcaac 240

gttcaaacac actgggtatc gattaccana tcattgtaat ngattacacc 290

<210> 30107  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30107

acgtttgcag atgctctcaa aatcaatccc aatgtattga gctgaatgta caaaaggatg 60

aggggtttgt gacaaggaat gggatgagtg ctacggaaat ggttgctggg ggttggtgt 120

gtggaaagga tggcaaggga aggggtggtt caacggatgg tatgggttgc aatggttgga 180

gctataatgg cagccacaga agctccattt agcgagtggg gtggatggg gtagtggaag 240

ttggtatggg agccatggaa gacaaccatg agctctcaat gaaagcacca aatgctacaa 300

acgcaggaac aatggggaag aataacctag cttcgagggc taggaacctc cataagagag 360

aaaaataagg aaggaaaact tgtatctatt ttntgctgtc ctctattgca tactaagcat 420

cccttatat 429

<210> 30108  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30108

agcccttttc cttaactttc tagggactac tcacatgaat ttggactttt ggagtggctt 60

atagaccccc cacaaagaaa atagggaaa gtaacataaa atcccaaaat tagccacaat 120

tatcaattaa acccaaatat ttgcctaaga acaaaatgaa gtaagggtgag aaaataagag 180

ccaaaaagag gtgaaatatg ctaaggagaa tagaaaaata ttaaactaag aatgctcaat 240

caaatttccc cacactttat cttttgcact cctgggcaaa actaagagaa agactaagaa 300  
aaagaaatca aactaaaggt aaaccacaac taanagaaag gaatgaacaa gacacacata 360

<210> 30109  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30109

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ttcttccttc gtgcacaata gcatgttcta gtcctagtct agaagctatg tgtttcactc 120  
ccatgacgtc atcctctgag accagtttca tctatatatt tgcattcattt ttgacatttt 180  
ccaaagctaa ttttatggat tgaagactag tagtgcattt gagacctatc aatcctaaca 240  
agatcagttc ttcttgctga agttgttctc catctctttg tgtataagca aaagcaattg 300  
gcttaaggtc agcatcccc atttggtgaa tcacctggcc aactttgaac ttcttatttt 360  
ccatggcatg tgtggcgttt aaacaaatta gttttacaca tganattaan aataaaaaag 420  
gaaccttcga gt 432

<210> 30110  
<211> 420  
<212> DNA  
<213> Glycine max

<400> 30110

aatctacaga gatattcttc tatacgactc ctaggtcctg aataagttgc agcaacccccg 60  
cgggagacta cacctggtac ttgtcatgct gatcaacgtc acattggcgg atgtactcca 120  
ttataatagc tctcattctc ttccaaaaga agctggatga caaccgctta tacgtcttcg 180  
tgaattccga atggccacct gcaaccgtgt cgtgaaattc ggccatcaca gtaggttacg 240  
caacatcaga cagcctttga agaataaggac accatcgtgc agagtatagt gtggcagaga 300  
atcagaatca gattgcaatt gcgagctcaa cttgaccaac tcaaggatcat tatgcacttc 360  
gtgcttgata gcaggggaatt ccaccaata aggactcatg cagatggtgc tgaactcact 420

<210> 30111  
<211> 416

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30111  
  
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 ttgccccaaa ccaaacttga ccaatccccga cccaacccgg gcatagtcgg tcagtggagaa 180  
 cctgtgatgt acctaagcag gcgagctcct ggcagtcaac agataaaagg aaaacaagac 240  
 cacaaagcaa ggaggcttgt ggtggctggc cagctgtgaa tnttgtgtaa tatgtggatt 300  
 gtggcctctg gtaatcgatt accanaggtg agtaatcgat tacaaggctt anaaattgag 360  
 gacaggaggc taagatggtc tctgngtaat cgataccaag ggggtgtaatc gattac 416

<210> 30112  
 <211> 437  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30112  
  
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 taaaggcgta atagaacttt aatggatatg attaggagta tgttaatcaa ttgacttta 120  
 cccgtatctt tgtggatgta tgccttgaaa actgtcatgt atttgttgaa tagggctcct 180  
 agtaaggcag ttccaaagac acctttaaac tgtggacaaa taggacacct agtataaggc 240  
 acctgcatgt ttgggggttg caggcagaaa taaggattta taatccgcaa gacataaaat 300  
 tggatgcaag aacaatcagt ggatatttca ttggttatcc agaaaatgaa aggggtatat 360  
 gttttattgt cctaatacata gtatgagact tgtcgaaact aanattgcaa gattcattga 420  
 .aaatgaataa atcagag 437

<210> 30113  
 <211> 407  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30113

00344-53440

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ccactcctca cgtntgggtt tttcggggaa aaacaccata actaaacgcg ccgcaaggga 120  
tccctatcgc accagatcca aatctagaac gatgggtgat caagaggaga cgcaagaaca 180  
gatgacagcc gacatgtcgg ctctgaaaga acaaatggcc atcatgatgg aggccatggt 240  
aagtatgaag cagctcatag agaaaaacgc ggccaccgcc gccgctgcca gttcgggtgc 300  
cgaagcagac ccgactctct tggcaactac gcaccatcct ccctcaaaca tagtaggacg 360  
gggataggac aactggagc acgatggcag ccctcacctg tgataca 407

<210> 30114  
<211> 301  
<212> DNA  
<213> Glycine max

<400> 30114

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aacatgattc tttagagtct ccaccaatta aacttgctat agaagctaga tttgattttc 180  
tatggttcaa atttcttggt cttgttcttg aaccatgaat tgtgttgagc ttaagatcct 240  
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t 301

<210> 30115  
<211> 352  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30115

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ttggctttaa aacattgttt tggaacaat ttctaaact gaatagattt tgaatgaaaa 180  
attaattcct gaatagtgtg aaattacttt agaaaatagt ttttaaacc aaaaaggtag 240  
aaggaaatta aatagatcct aaatattttc tttatgtaca ttntatgatt attatgttca 300  
atgtcttcat catttactta gcttggaaata atacaaactt ccactttctg cg 352

<210> 30116  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 30116

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 tgatgtagag aattcgattg gatcgaatga gtttagaccc atttctcttg tggggtgtct 120  
 atacaaaatt gtagctaaaa tactttctat ttgccttacg aaagtgttgc acaaggatcat 180  
 tcatgagtga caattggctt tccttgaagg tagaaatatg ttagatggag tggttatagc 240  
 aaatgtgtcg aacatggatt tcctaaatta aagggtgcat tgagaccttt actatgtcgg 300  
 ttcttgtgaa tgggagtgca actcacgagt ccaaaaacga gacgggctcg gtgggttgta 360  
 cgaatgccat 370

<210> 30117  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30117

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 aatctgagtt actaagggtga ccaaggcatc aagttttccc tcaggctttn tattttcaat 180  
 agatgaagat gaattcgtgg ccacctcatg gactcctcta aggacaatag catcatttct 240  
 tgactgaat tgttgggagt tggaagccat cttcttaatc aaattcctag cctcaacagg 300  
 ggtcatatca ccatgagctc caccattggc aacatcaacc atactcctct ctatgttgct 360  
 aagtcctta tagaaatatt gaagaatg 388

<210> 30118  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30118



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 gaaaatgttt ctaattcatg ttctacttat ctcttcacac ataattttaa caaccctttt 120  
 tgttcattac taaacaagct gaaatcaatc acaatcacia gcaagatgtc ttaactacat 180  
 gcaaaaaata aaaatgaaga tagagaaggg aaagaaaagt tgggttgctt cccagtaagc 240  
 gcttctttta tgtcactagc ttgatgcac atcctgttat ccaggatcca ataatgttcc 300  
 cacttcaagg accttcttct caggtcttct ttctccatc acatgaactt taaaatagac 360  
 attccggtca agtggctctt tatcttcatg aaatagatca aagctgattc tctgatcttc 420  
 tatgccaatn tgcaacatct tcttc 445

<210> 30119  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 30119  
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 atgaatgata taggggtgca agaacttgcg ttcaattttt tttttggtcg atttatgaat 120  
 caaatttcat aatataaata aacatttttg agtttagtta caaaacatat tagtttaaac 180  
 acatttgaaa atagattttc gaaagtgttg aatctacact ttggaaactt agtttctaga 240  
 agtacaagca ttgttcaa atacaaattag agtaccttac tgaatctcca tgctccatta 300  
 tgtatgtatt cccctcgta ctaaacctct ttggacccat tgggtctcaca tcaagacacc 360  
 attgcattga agactcatgg accacccaca tgc 393

<210> 30120  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 30120  
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 atatggcagt gctcagggcc acgatgttat ttacaatttc tgaagctgct caagctagag 120  
 agaatcatta catgcacatg cgcatgcacc ttcttcta attacgtacg ggtatagata 180  
 ttcccatagc taatcataat ttcttggtct ctctttaatt gtgtgtatat ctatttattt 240

ctattacgat gcatatatca tgccatagaa tgatgatctt accgattttc tacaatacat 300  
 ttgtcgatca actccgacgg aagaaatcta agaaatgaaa gaaaatatga atatgac 357

<210> 30121  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30121

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 gagtctatctt tgtaatgagt aagtcattaa ttttgtcctc aaactattac cctttctttt 120  
 gaatgatggc taatgtaaaa aataaaatat aattactcga gtagtgccac aagtattgta 180  
 tatcatgcta agtaatcctc caaacattaa aaaaattggt caaattgatc cctaaattnt 240  
 tctcanatac ataaacttaa ggaccaaatt gataaatatt caatactacg gngattagct 300  
 aaatactttt attacttttg ggacaattta tgagatagaa agggccatac ttcaatgaca 360  
 aaattgatgg tttattcatt gtggaatctt canataaatg gtacagaaaag atat 414

<210> 30122  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30122

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 gtgtttgaaa aaagataaaa aaggagggtt acatgataaa tccaatccac ccccatccc 120  
 tacctctttt tcccttctcc atctanacac actagaaact tccagggcac attccaaact 180  
 canngcaaaa aaggtgaagc cataggatca catattactt ttgatatacc ccaactaaga 240  
 aaaaaatntc acataaacac aatntaaaat tatttttttt caatttcacc tccattagac 300  
 tcagtatcgt ctctcttccc aataacatat cttggagctc cccaagttcc attcactctc 360  
 tgctcagta tatangactg aattctcggt tgattgtgtg caatctagct tcagcttctc 420  
 aggttcttct ta 432

<210> 30123  
 <211> 324  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30123  
  
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 acctggctca agaacgactt tctttctgct tttgttggtc tgccttgcat agctcgatt 120  
 tttcttttca attagagcct tcacttgctc atgcaacttc ttcacatact cagctctagc 180  
 ctgtgcatcc ttatgcttaa acatancaat gttaggcata ggcaacaaat caagaggagt 240  
 caaaggatta aatccataca ctatctcaaa tgggtgaacaa ttagatgtgc tatggacagc 300  
 ccgattatna gcgacactca catg 324

<210> 30124  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
  
 <400> 30124  
  
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 attggtgttc cttcccgcga tgcttctttt catgtccgcc tgagtgggct tatagcctaa 120  
 accatacttc ccacgatttc cttgggtatt tatcaggcta gttatgccgc cgttgttttt 180  
 tcctaaacct atcccggtt cataaccgtt ccccaacata actcgggcca tcattaccgc 240  
 tgcacgggac agacaaggct gcccaaagag ggagtccacg gaggaaatgc tgaccacctc 300  
 aaaagactgg aaagcagttt ctaacgattc ttctgcggct tccacataag gcatggagga 360  
 tgggcagctt accaagatat acttctcgcc tgacac 396

<210> 30125  
 <211> 345  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30125  
  
 accaaaccaa acaacattca acccaacct aagttcaact tcattctttg ttcatttgat 60  
 tcgctcccaa acagagacat agcctctttc ttttcgtttg agaaacaaac ccctcgtttc 120

aatcattgat ccttttctgt taggtttgtg aatntgcttt tgtttttgta aaactttgca 180  
 cctccccctt tttggatttc gtagttaggc gaaaatttta atgtttccgt gtttcaaatt 240  
 tgcagatacc agttactctt ccaatttcgt catggccaaa acctccttca agcttcagca 300  
 tcctttgggt acttnttttt cccctttaat atttcgttnt ctcta 345

<210> 30126  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<400> 30126  
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 agagaaatat tgccaaaaga agcttcctag ctagatctcc taaaaagcag ggatattata 120  
 gaagttggaa ataccacccc tacaaccttt ctttgatttg atcctcttac tgtgtccttc 180  
 attcctatgt tatggagcag atccccctcc aaagaaaaaa gaaagaaaag cattcaaaca 240  
 agttttgata gaaaagtcgt agagctagta catacaagta aagctaagaa tgtaggactt 300  
 tgattccttt gctttttgtc tctctttctc tctccccatt aaacggaaat taaattaaaa 360  
 aaagattttt tttttcattt ataaaaacaa aaggctgata aagctgaatt catatacaca 420  
 gagcagtttt acagtcggac atg 443

<210> 30127  
 <211> 273  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30127

acaaaagatg atcttctacc cccattccta gttatatgct anttttcatc gtatattatc 60  
 ggaggtataa atctttaatt ccaccttgat tttgatatta cattaaccat aactcgatgc 120  
 tagtatatac gaaaaaaaaa ctgtaatttg attacttacc ttatgctcta atagccagag 180  
 gatcaaggct tctctcacct acgcttgctt attgtcttct agcatatgca acaaatgtaa 240  
 ggacagacac ttttggaatt catgtacttc atc 273

<210> 30128

<211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30128

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 aaagcaacca gcgataaaac ccaatacaga taaagcacct aaactaatag aaaagtaagc 120  
 ttctccagac cataccagtg cagcccgagc ccatgcaaaa ggtttggtta agatatgcca 180  
 gattccacca agtatacaaa tggaacccaa ccatacatgc cccccaatta tatcttccaa 240  
 atcgcacaca ctaacaatcc acccttttcc cccaaaaggt gattttaata aatatccaaa 300  
 tataatactc ggactaatgg tcacattggt tattttttctt acatctccgc ccccgaggagc 360  
 ccacgtatca tatatnacct ccaaatanag agccttgaat actagatgaa acgcaccta 419

<210> 30129  
 <211> 495  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30129

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 taggggtgca gagacaacca ggagggttgc ctataagcag acacccttga aagagtgcgt 180  
 aataactcac tgatcgagcg ctcttgcgcc gaagatgaac ggggctaagc gatctgccga 240  
 agctgtggga tgtaaaaaag aatccgtagg ggagcgtctc cgcttagagg gaacgaccg 300  
 cgcgagcatt gctggacgac acggaagcga caatgtcggc ttgagtaacg cacacgttgg 360  
 tgagaatcct atgcctcgaa aaccaaggg ctctctcgta aggttctctc accgagggtg 420  
 agtcatggcc taagatcatg ccgaaaggcg tatcgatgga cacaggcgaa tattctgtac 480  
 tacctttgtc ggtcg 495

<210> 30130  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 30130

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caaggatgcc attctttatg gccaaaaaca aaaacttacc cttaaagaaa tcccgacctt 120  
caccagggac cagggaaatc caaaaccgcc aggggttctaa tctgaggata atgggtgaaag 180  
cctgaatatt ttcaaggaaa ggagtgaaaa aagggaacaa gaggaaaaag tccatatcaa 240  
gtcaagggat tcaaagaatg gctagaanac aaagttcana tgctttaatt tgtcacaaac 300  
tggtcatttc aagaaagact gcccatacaa gatcaagaaa ggatctttgg actctgctga 360  
catagttgaa gcctctgang gtatgagagt cangtgttta gtagcttcta tcn 413

<210> 30131  
<211> 445  
<212> DNA  
<213> Glycine max

<400> 30131

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tgatgaacta agagacgtca atatggccac cgctgaagcc ttggaacgag aaaccaagaa 120  
ggcccgaag gaagaacacg accaaagcaa agttttgagg ggctttatag ggcagcaata 180  
gtgagctcaa gctccgaaga ggtgaaagga atcatcatgg gtcaaaggca tgatcttgaa 240  
ggacgagcta aaagcttgcc tcatgtcgaa aagaaatttg tcccaacagt taagcgagac 300  
agaagggaat atgtgggcca tcatcgatga gtgcaaagag aagctaaatc tatcggcgac 360  
tcataagcaa aggctagagg atgagtacgc caagatatca gcagacaggg aagcaaggga 420  
tagggttatt gattcattgc accaa 445

<210> 30132  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30132

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ttcaactgag ctcacgtgct cccacgtagc ccttatactc gttcctctca acaccgggtc 180  
 cccatcaatc cctccaagct tccacaacat ccaagaaatt cagcatccaa acatcatgaa 240  
 ctatccaaaa ccaagaaaac agggcatagg cagaaaactc ttcccaaaac acattccaat 300  
 accacagttt tcttactca nataccccag taacattctc tttgtttcga ttcgttaacc 360  
 ggtggatcaa ctcanaattn ttactggagg tccctaatac atatatctac ag 412

<210> 30133  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
 <400> 30133

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 attgttagtg gtgtgggtta ccattattgg aacaaccaca tgcaaatttt tatagagaga 120  
 attcttcttc ttcttcttct tcttcttatt catgagattg attaacggat cgagggtttc 180  
 ttaagttgaa ggaattctga acacaaggga agggttgtgc ctatgtgggt cagactttgt 240  
 aaaaggcatt ttacaagata gtgaacatct caaacgggtt gtttggagat tagacgtacg 300  
 cacagggcat gaccgaacta gtataataac tgagtttgca ttctctcttc ccttaaaatt 360  
 ctcttactta ttgggtcttta tcttttgcac tacagaagtt tactttgaat t 411

<210> 30134  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30134

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 ataaattctt gtaagattaa agctctcaaa acacctttta taccttgaga aaaaagactt 120  
 aaagtgttga gtgttatatt tgtctataag accatcacta aaattaatcc atgtgtaatc 180  
 ttttaacaaa tctttgtgat ttgtttaaag ccaacaatgg cttgatagaa caaagaatat 240  
 tggtttaaat cacacttggc gtgagcttgt acgtgaagag ctagaagtga cagtgaataa 300  
 tacttgaac tctgataagc tagtggaac ttggttggtta ccaagaattg aat 353

<210> 30135  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<400> 30135

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 tgggtgcgtc taaataaagg attcaagaaa tgttgtgcct tcaacaggcc aacctagaag 120  
 aaaccatggc atagagcttc ctcttctaata gcatggaaac caattcgctt atcaagaaca 180  
 ccttggaagc ttcaactcaag tacttcaacg actctcgtat agttctatat taatatgcta 240  
 atgcaacaac gacttgcttc aaccggctaa tcccttgtgc tacaaccagc tacttctttc 300

<210> 30136  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 30136

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 caaagagccc atgagaatga gttcaagatt gacatctgaa cacttcaaga atcaagagga 120  
 aatttgagtt caagattcac gaatcacggt tcaggattta agtttcaagg aatcagagaa 180  
 tcagcgagtc aagaataatc gagttgaaga ttcaagagtc acgtgaagac tcgattcaga 240  
 taagtacaca aacgtttttc aaaacattga gtagcacatg aatatctgac aaaacctgtt 300  
 gccaaagagt ttttactctc tggtaagtga ttaccagatt attagaagtc gatacca 357

<210> 30137  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 30137

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 caagccgagg cgcttccgta acgtttccgt gagtaattac gcgaagatgc tcgaccgttc 180  
 ttcaagattc atcattcggt ctctcgtttc ttcaagtctc aacgggtaag tacctcaaac 240  
 caagcttttc aattcattct atgtaccggt ggtggcccac atttcgcttc atgtattttt 300



attctcgttt tcattacttc ttatacccct ttgacgtgc ttaagccatt tatttaagtc 360

atttctcgct ttaatctaaa aat 383

<210> 30138  
<211> 500  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30138

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ccaccagct ngactatgca ggctacgggtg ctacttctat attctccgcc ttctggcgga 120

acctgctgga atgctcaagt gggcctggct cctatcctca ccacatgat actaaataca 180

cccaaaccac ttactcgttg attcctcatc cgtaaccgta cggaactcta tgaatctcgc 240

aacgatcctc gctctatgtc cagaatgtca cgaaacctta cggattacac aatcatacct 300

tatttggcct ccgaactgta actgaacttt accgactgag caacaatgct ctcttttgac 360

gtaatgcac gcacccaact ctacggatta tacaacaccg catcctttcg acttctgcga 420

tgtcacgaaa ctttaccgac ttactcataa tgggogcaca gcaccttcaa gcggtcaacc 480

atggtctctc ccccaaacc 500

<210> 30139  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30139

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ggaagcctct tctgaattag gaatcaagat actaagagat cgctcttaag gtatcctaag 120

gttttcacaa gagagttata tcgataaggt cctaaataga ttcgacatga aagatagtaa 180

accaggagat accctgatag cttaaaggaga caaatttatt ctcaaacaat gtcccaataa 240

tgaccttgaa agaatagaga tgcaaaagat tccttatgca tcaacagtag gaagtcta 300

gtacgctcaa gtttgcactc gtnccgatag agcatttgta gtaggaagtc tgggcagata 360

tttgagtaat ccttgaatgc agcatttaaa agcagcnaaa cgtgtgatgc g 411

<210> 30140  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30140

ggctctagcc tcactcaccg cttttctggt tttattttcta gctatcttat acttatccgg 60  
 agtttgagaa tttctacacc tagaccactc cttgaaacac tcctttttta ctctaacttt 120  
 gctctgaaca ttttcattcc accaccacga ttctttaccc ctaggtccaa aacctctaga 180  
 ttcacccaac gtctcttttag ccactttaat aatctcttgg gacatcttgt tccacatata 240  
 atttgcaatt ccttgtgatt gtccacacca accctcccat atctnttggt ggaagattcc 300  
 ttgtttctca cccttcaagt gccaccattt gatccttggg gctaccatag gacttcttct 360  
 ctttgcccta tctctaattc ttacactcat aaccaacact ctatgttgg 409

<210> 30141  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30141

ttgagaagat tgggggttgac ttacctatgg aactattaca gttggcggtt atgagttatg 60  
 ctgaatgtca tanagtagtt ggagacctgg accaaaataa gatagctttg gaaatttttag 120  
 ctgttcctga ccttcctcaa ttggctccat tttttctaag gaaatcatca cccacggca 180  
 atgaagacat tgtgggcca ggtattcctt ttctgttct acttgtgctt aatgaaattc 240  
 acaacgggta ctcaaatttg gaaggagacg cactttcagt ataagcagag cttggcctca 300  
 aataccaaga agttatgc 318

<210> 30142  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<400> 30142

gtgaccagga tcagggtcca cgatgggaaa gctgtatata cagaaattgc gcaggaataa 60

gcgaagctcg cccaacttg aagtaaaaag cacttcacag aaaactaaag aaactccagc 120  
 atacaaagcc ctagaagaga tactaaaaac catgcctatg aacagaatat gcagtatata 180  
 atagaagcaa taaagaaaac ttgtcacta ttcacaccaa taacaacaaa catagtccca 240  
 gactcaaaat acacctacct tcaaacaaat agaaatagaa atatagacac agtacaatgt 300  
 tatcattggc accattctaa catatagaga ataccgcact gaatctacac a 351

<210> 30143  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30143

cgcccatgtg tcatactatc tgggcaatca gctcgcccc gngatccttt aaatcaacct 60  
 gcaggcttgc aaccttgact tgtctgccta agcacactat gcctctggaa gttttctttg 120  
 aattaagatt aacctaaact ctggtcttag cccttggtgg gtggtgaggg aggttaacct 180  
 aacccccctc cacccttaac ttaacttttt tattggattt taaagttttg cagttaagct 240  
 aaatgcccc tgtgcgctaa cctggatgta ttctgataac gtgactaagc gcccatgcta 300  
 cactaagctc actctcttta ttgaaaaatg ggacctggct aactcacttg ctgcctaact 360  
 taattacaan aaatatttgt gattcagcta tgcagttact ggcttatcct agaaaattta 420  
 aagcgcgcta cgcactgctc ctaacac 447

<210> 30144  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 30144

ataaaagtta ttatgttaga catttgtgag acaaaatgat caagaggcaa tgggaccctg 60  
 aaagtgtgaa gttgagagaa acctagatga agtgtaggct actttatgag tggcggttagt 120  
 ctatgctcaa gtccttggaa agtggttatt gtgtgtggaa ctgtatgggt catgttggat 180  
 caagtcgaga atctagaagg ggggtgaata gattatttca aaatcttgtg ttgtcaccac 240  
 aatctgttgc ccttgcactt tagcacacaa gaaccagta tcaccatcaa tatgagttat 300

ggtatagaaa aattttaciaa ggtctatgta gtaggtgcac ttcattctcca ccaattttctt 360  
 caaccctgta taatactagt tcaactcagg aaaaaaaaaa tcttcacttt tgagccacgc 420  
 caaactaaca tc 432

<210> 30145  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30145

ttaatgggtat atttaccttt attagccata ttaaataatta tttattatta aacttaaatt 60  
 taagccaatg gtaatactaa aaattgggtat tttttaattt ccttaaattt ggaaaattcc 120  
 ccccccccc ttggagaaat ttcctaattc tgtccttgca atcagaccaa gtccagtgtc 180  
 tggagtagat gaacaagtgc tcaatcttgt actgtatgaa gaaaaggatg aagacacatc 240  
 agataccttt agagtatgtt tggatgggga aacttaaaat tctgagaaat ttaaattcta 300  
 gaatttcat acttcaatga attctttatt tcaaaatttt tggt 344

<210> 30146  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30146

tgagactttt attactatat tttccacttc ttatctaacc ttggaaaggc tccacaaaga 60  
 gaaagccaat attagaaata tgtttatctc tgatgaatgg atcctaaaca agttatctaa 120  
 ggagcctaag gggaaagaag ttgcaaaggt agtgctcatg ccttcttttt ggaatagtgt 180  
 gggttacact cttaaagtca tggctccact tgtcaaagtg attcttcttg tggatgggtga 240  
 aaggaaacca gccatgggct atatttatga agcaatggac aaggaaaaag aaacaattat 300  
 caagtctttc aacgacaatg aaagcaagta caaagatgtg tttgcaatca ttgataaana 360  
 gatggaattg tcagcttcat aggccattgc atgcatctac ccacttctta 410

<210> 30147  
 <211> 211  
 <212> DNA

<213> Glycine max

<400> 30147

tttttcgaac catttccgtg aataataatt ttttggccaa atgggccaac aggcaatttt 60  
cgcccaataa atgggaaaaa gccatgttcg gcccgaaacaaaagcgggt gggctcgcac 120  
aaaagaaact aaccgcgacta ctttttaaat tttgtatgca acacaaaaac aagaaaactt 180  
cctgtgccgt aaaaaaaaaa cattacatga c 211

<210> 30148

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30148

atgacgccga tcgaacattt cctaaccgac gtcttgctna tttcgttcag ggattgaatt 60  
gaaaactcgt taggcgacat ctgtcgcgaa gtaccgaccg atatttttca gccgacattg 120  
cacaattctt tttagaaaag ctgcgtggtc gataatggtc tttttacggc agagtaagtt 180  
ttcttgTTTT ggtgttgcatt aaaaaagtta caatgtactt cggctagggt tttcgtgcga 240  
gttcaaccga ctttttgttt cggccaggaa aacattagcc cacctctgca aaaaaaatat 300  
ttgctaaccg tcttcatgca tatttcattc aacgattgaa tagaaaactc aatagccgac 360  
aacggtcgtg aaatagtccc gactgatatt tttcagccgg cattgcgcatt ttttttctaa 420  
aaaaacgctc gctgg 435

<210> 30149

<211> 168

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30149

atgcttcaat ggaggaaaat aaagagggag agaaagagag aggggggggg ggggaacacg 60  
aaattgaagg gaataaaaag ggagagaagg gaactttgaa gtatgtctca caagactctc 120  
attcatcaaa gttacaacaa gtgttacaca tgctttctatn tatagact 168

<210> 30150

<211> 445  
 <212> DNA  
 <213> Glycine max  
  
 <400> 30150  
  
 acgggcatct tagttcattc cttatgaata atgatttttt tagaggaaaa tggatacaac 60  
 tatgttatgc aagaattatg attcccaatt tagcaatttt attaagaatt ggcttccacg 120  
 ttttctctct tcttgggtta gctccaatag ggataccaag atacacaaag ggaaatttat 180  
 tgatcatata gtttatgata ctagcatacc tctccaaagt gctatcttta accctaatag 240  
 tcctaaagaa acttttatga aaattaactt taagtcccaa gatgagctcg aaacctctta 300  
 atatactttt aatgggtatac acatttgaga gggatgcac accaaaaaat aataaagtat 360  
 catcgggtata ttgaaggaga ttgatttgag ttttttcctt acgcaccaag aagctacaaa 420  
 acaaattttt ctcaatagct tgtct 445

<210> 30151  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30151  
  
 agctnttgat caattcanat ggtcataact tttaactcag atgtctgatt catgcgcata 60  
 atatatcgag acgctcgaaa ttgaacaatg gaagctcttg agcaattcaa atggtcataa 120  
 cttttaactc agatgtctga ttcaggcgca taatatatcg agacgctcta nattgaacaa 180  
 cggaagctct caagtaattc aaatgggtcat aacttttcac tcggaggtcc gattcangcg 240  
 cataatatat caagtcgctc gaaattgaac aacggaagct ctcgagaaat tccaatggcc 300  
 atcttttcac tcgnggtcc gatttaggcg cataatatat cgagacgctc ganaatgaat 360  
 agcggaagct ctcgagaaat tcacatggtc ataactcttc actcgaggt ccaattc 417

<210> 30152  
 <211> 446  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30152



agagccctga aaactatttc cccatcacag gactcctcat agaggatttc tacgtaatta 300  
 ttattttattg tacccaaaat ctttaaagaa ggcagtttcc ccaatagtgg aagttgtaaa 360  
 cagttttcac aattcagcag atttaacagg gttaaatact tgagagaagg agtagacatc 420  
 cattgtggga aatgagcacc ttg 444

<210> 30155  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30155

agcttgatg tattatgggg taccatcac atgtggtact aggtggaggt ccggcgatgg 60  
 tgcacaacaa attttccaca tccacaaatc gtgcataaac ccaccatccc ctgttgccca 120  
 cctccaattg agctcacgta ctcccacgta gcccatatcc tcgtttctct caacaccggg 180  
 tccccatcaa tcttcccaag cttccccaac atccaagtaa ttcaacattc aaacaacaca 240  
 aactatcaca gccaaagaaa tagggcaaag gcagaaaact cttgccaaaa caccaaccaa 300  
 aatcacagct tttctcactt aaagacccca gtaacagttc cttcgttcca gttcgttaac 360  
 cgttggatcg actcgaaaat ntactggaa gtctctagta cataatccta cat 413

<210> 30156  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30156

tgggacatct tgacttgctt tccaatctga cattctcctt atattctgcc ttcttctatt 60  
 gtcagattgg gaatgcctct aacagcacct ttgtcaatga ttttcttcat gcctcttaag 120  
 tgcagatgtc caaatctttg atgccatatt ttgacttcat cttctttgga gaatagacat 180  
 gtggaggagt aactggtttc ttgagggtgc cataggtaac agttgtcctt tgatctgctg 240  
 cctttcatta ggacttcaact cttctcattt gtcaccaagc attctgactt tgtgaagttt 300  
 acattgaatc cttcatcaca caactgactg atgctgatca agttcgagc agtcccttc 360  
 accagcagta ctttgttcag actaggaagt ccatcatgga ctagctntcc cattccagtg 420



atcttttcctt tagagccatc t

441

<210> 30157  
<211> 410  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30157

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acttgaataa ttggactgcg agtttgggct tttgttcgtg taattaattt aactagttta 120  
attgggctgc gaagtttgtg caacttggtg tccaaagttt atccccctatt ctgagtgaaa 180  
gtaacctctt tgggggttaag tttgagttaa aattgccaaa ttctgcctct atgagtttta 240  
tcggtatggg caatttggtc atttcaaagg aaattatctc agaatgggct aaaactttgc 300  
caaaatgtag aanaattcat acatcgaggt gcccctgtga gggacaaaca caaacattan 360  
gaatcattnt tgccaaattc atttatctgg accacttttg gaattccttt 410

<210> 30158  
<211> 424  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30158

ttcttttgtg ttaggtatta agatactacg agattgctct tttgtatcct aaggttgtca 60  
caagagagct atatcaataa agtacttgat agattcgaca tgaaagatag taaaccaggc 120  
gataccccaa tagctaaagg agacaaattt agtctcaaac aatgccccaa taatgacctt 180  
gaaagaactg agatgcagaa gattccctat gcgtcgtagt agcaagtctg atgtatgctt 240  
aagtttgtac tcatccccgac atagcatttg tcgtaggagt tctgggcaaa tacttgagta 300  
atcctggatt gcagcattgg aaggcagtga aacgcgtaat gcgttacttg aagagaacaa 360  
aaggctacat gctcacttat tagaagtntg acaatntgga gatcatcggg tactcagact 420  
ctga 424

<210> 30159  
<211> 348

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30159  
  
 agcttggtgt atgggttcaa ttcctaacta tgtatagaga aaaaaagtca tttgttgaca 60  
 aaggttgat tcaactttatt ggtgaaagag tgtagtctgt agctggtggt ctgaaatac 120  
 ttttaataata cacaaagtat gtatttaca aaaaaaatg atacaatttt cattgctaaa 180  
 gacgggtgta agacaatcat gaaaataggg tgcaggggaa aaaactaaag ctcagatcga 240  
 gcagaataga gcagggcagc agcttcttat tttgattgat ttgtcgggtt tcatttattt 300  
 taaatgtaa tttggagact ctatgtttct ttccttntc ttttatga 348

<210> 30160  
 <211> 96  
 <212> DNA  
 <213> Glycine max  
  
 <400> 30160  
  
 tcttttgatc cgactatgtg actaatcatt gattcttgtc ttattcaaac ttaaagctca 60  
 tctctcgttt gtaatagtgt atcatgttgg gatgac 96

<210> 30161  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30161  
  
 agttttgagc aatttctaac aacaataact ttttactcgg atgttgatgt gatccttacg 60  
 gngcggatcg cttgatacag gctgtagagt tttggatgac gccacttcca gtgaaggaag 120  
 ataagtcagg gtagacacca cttccggtga aggaagataa gtctgggcag acgccacaag 180  
 gattaccttg ataagtctga gattggttca accaggaacc cagagagaaa ctcaccatat 240  
 tctatcatat gccagaagct ttgtcttatt cagaacgaaa accaataactt atagtgtagc 300  
 tgaacaacaa gataaaaata gacatgggcc ttctaaacag tttgggccaa aattacaata 360  
 aaaataaatt ataactanaa acttatttaa c 391

<210> 30162  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30162

acacagcaac acagaatcta ggtgtccaac actccttcaa ttcaatgggt tttctaggtt 60  
 tgagaagtga aatttagaat gaggtaaatt tggagcaaac tctcacctca cacaagtcta 120  
 taacatcaat ctaaacttgc tcaaactgga tttacaccta aaattccacc gaatcaaaat 180  
 ttgactcttc aacacccaaa tttgccctag aaatggctct ttgttcactt tggtcatttg 240  
 tttttccctc tatcacagcc taacctttct cataagtcct aaatggcatt tcaagctaag 300  
 attaactcgc tctaactctt aaatactacc aaatccagat ttggccttcc agccctcaaa 360  
 aattcactct ntttccactc ataacaccac attntcactt tctaacccta ggtaattct 420  
 accattcatc tctaacagt 439

<210> 30163  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30163

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 ggcggcgggc ccgatgacaa gcagagacca agtttgggtca ttctgcaccc ttgtatcatc 120  
 caaaggcggc gggcccgatg atacgaggag ataccttacg gttatccgca cctttttgtc 180  
 atccagaggc ggcgagcccg atgacaagca gagaccanatt ttgggtcattc tgcacccttg 240  
 tatcatccag aggcggcggg cccgatgata cgcggaataa cccgagtggg ttttcgtata 300  
 aacattcttt tgctatctgt aagacagaac gctngatagc atgcagaggc tgacatagtc 360  
 ttctgcacct tttggctctt cggaacaac aagtcattta catg 404

<210> 30164  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 30164

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ttgctaccta aagccgcatg ccaattcaag tatattttcc ttgctgact aaaattgtat 120  
tcaaattaaa ggtatacat ttttttgtaa tgtattttct ttacataaca tgcaacatat 180  
ttatgtatat ttttttgta gacattttga ctaccaaaaa ttatatgcac atacatccaa 240  
gtattttgct atcataccca aagtgtaaat tgccaaaggt attttgctac ctattctaaa 300  
cctacacatt catgacgagc aaaattccta aacatctang cgtanggaaa ttattgtagc 360  
gtggcccata gctgattgct ggccaaaaag ggtaactnta cccaatatng cacctctttt 420  
gtgtctttt 429

<210> 30165

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30165

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aggatcttgg acttgattat gttaagacag atgtttgcat tgatgattgt atcttatata 120  
aaggaagcta taaaaacctt gatgaatata ctatttgtaa gaaaactaga ttgcaagaaa 180  
ataagaagaa aaataatgtc cccaataaca cagttcggtg ctttccaata aaaccaagac 240  
tgcaaaaatt gtttaggtct aaacaagtta tgtaataatt ttggtctcaa cattttggaa 300  
aatgaaaggc tccttcagtt ttggaattga gaagacanaa tgaatggcta ctaatgagtg 360  
gtaatgacca ctaatgggtg gtaatgacca ctaatgagtg gaatgactac ta 412

<210> 30166

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30166

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tctcaaaata aaaggtgaga ttgttttagca acttatgaac ttgaaaattt tgagtttttg 120

ttaagtacga ctatttggtg tgatcatatta tttcatgtaa actccattag taaaaagtta 180  
 caatcaaaag atatgggtat gtaggttgct atagaacaat tgaaaggtct tatttctttt 240  
 tttgaaaaat atagagaaga ttgatttgaa aatgctataa tttctgctaa agaaattggt 300  
 attgaaatag atatagaacc taagcttttt gaaaaatgtg ttattcatag aaagaaaaac 360  
 aatttgatga gaatattgat aataaagttg taaaattgcc taaagaatca tttanaattg 420  
 attacttctt gtatataata 440

<210> 30167  
 <211> 415  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30167

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 tcaactaggg cccttgattc tgctttaata aatgaaagaa caaccactga atggtgaatt 120  
 gctttccaac taattggtat acccaacaaa agaaatacat atccggtaaa gactttcttg 180  
 tacctacatt ttctacaaaa tctgcatcta catagcctgt gattgctgcc tcatgtgttg 240  
 tcttcttgta ccttaatcca gcattcaaag atccatttag ataccttagt gtccacttca 300  
 cagcttccca atgtgcactg ccaagatctc ccatgaatct gcttataata cttacagcat 360  
 gagccaagtc aggtctgctg canaccattc catacattat gcttgcaaca ccact 415

<210> 30168  
 <211> 435  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30168

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 tttgggaaat gagtgaaggg tcacgggtcat ggggtgatgtc ggggccagca atgtcttcat 120  
 ccgcaagaag caggtttaaa tgggacttgc aacgggtggcc gtgagaccat ttatcatcgc 180  
 aatggtaaca caggccctgg tctcagcgaa ttgcaagctc ttctgccgat aaacatttga 240  
 cgggattttt ggtagagggg agggaaagtg tattataagg ttaggggaa aaggttgagg 300

00507-30169

gggtcgtggg ataagggaaa gggtttgggg aggatgtggg ggcacggggt cctctgcagt 360  
ggtccaacat tntatcccc tggagacgtg ccagctcaat tgcctgtgga agcgagatgt 420  
ggcgcaacac atgga 435

<210> 30169  
<211> 413  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30169

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tatataagtt ggaagattct gtggaaaccc aattgccaaa gaaagtgact gtccatggat 120  
ggagggcata cgcattgagat atcacatggt gttgtcttcg gtccaactat gaaggataag 180  
ttgtgaagac ttgcgtaacc ncaccttatc atacattaat tggccagcat aaagtctcca 240  
catgtaacca aatgagacgt gcctctgtga aacgtaacgt ctattcaagc attatttggg 300  
attccatatt tgatatgttg tttgcgatcc aagtcacac accttcactg ttgggaattg 360  
caaagaattg tctgtggagg gagaaatatg catcgacga agcattacaa aat 413

<210> 30170  
<211> 441  
<212> DNA  
<213> Glycine max  
  
<400> 30170

tgtttctctc agggacaccc ctttcttttc caatctcatt gttcctccac aagctcccct 60  
ctctccctat ccaataccag agagaaagat gaaccacacc acccacttcc aatcacacca 120  
ttgtttcctt caaaaccatc acttttcttc ttggtgacat cttcatcaat gccaccaccc 180  
cataaaaaat cttccatttc catgcctcaa taacaataat aaagttaatg ttcaaaaggg 240  
taggtgattt cacaaatagc acgtgaaatg ggaaatgggg ttgttttggg ctttcttata 300  
gtgggtttgg agtgtgtgtg tgtttggaac taagtaagaa tgggtgagtgt ctgaaacagt 360  
gtaacagtgt cagtgcagc atatgaagat ggcaaaagaa gtaataatga gaaaagatct 420  
gaaggggtact aagtaagaat t 441

<210> 30171  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30171

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 aattattagt aacacttacc actgcatgtc tcaactaagt cacatcagac ctttcagaag 120  
 tcgaccgtgc tgctggctcc gtgaaccgac ggatatctgt gtctggatcc tgaggggcaa 180  
 ctctgggctg cgtagcatga ccatctgccc gaggatctga tggctggccc ggtgtcatga 240  
 atggatgcga aatgcggaag aatcagtgca tgtagtcgct tgcacactgc cttgcacaa 300  
 cgcagatgtc acctgctaca accatatggt ccgaatagt catccacctg ttgtgtatat 360  
 catcagactg caccatgaa tcngcangtg gagcangaat ggtctgagtg tate 414

<210> 30172  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 30172

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 ctcccacgtc agccttatcc gagttactct caacaccggg tccccatcaa tccctccaag 180  
 cttccgtaac atccaagcaa tttcaacatc caaacatcct gaactatcaa aaggaagcac 240  
 atacagggca gacgcacatt actctgccc acacacaggc caataccact actattatta 300  
 ctgtataaac ctattaacac taccttatgc acaattgggt caccgggtgga tcaactcgaa 360  
 gatttactgg aggtccctag cacataagtc tacatttgga 400

<210> 30173  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30173

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tgaattttat atgtatatag tttaatcatc ttttcctaag ttttcaaagc accaatatta 120  
gagttgattt aaaatatattc agtactaaaa gattatttac acttatattt aaaatgtcat 180  
tttaacgtaa tgtgttttaa ttttttaaatt attatagttg taataaaaaat aattacacat 240  
ttattntaag tatgttattt taatgtaata tttcttaact ttttgtggt tcatnttttg 300  
gtttataatg tggttaacta ttatttgtga attttgttct tgagtcttat gtctaataaa 360  
tataaaccaa ttttcatgtt ttcttacaaa cattgtatct gtctcttttc ttt 413

<210> 30174  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30174

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aattgagatg tcaatgccat aaataagtta acagtaacag caatgtgcag ttcttcaccc 180  
cataatcagt cacagtgcac ttccttgtct catgggatat tattaaaagt cagtatctta 240  
aggtttgagt actttgggta ttgcaatga atctgcttaa ggtagagtag caatgggtctt 300  
taagggtctaa ggagatataa taatcaaggg gaaatataca aaacaatcaa gaggaactag 360  
taaaaatata acaatatata caatgaacca agtaagaatc tc 402

<210> 30175  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30175

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taaaaagtta ttggagtttg aatttgctca gggcttcggt attccatttc gagcgtctcg 120  
atatattacg ggactcaatc ggacatcaga gtaaaaagtt attggtgttt gaaattgctc 180  
agagcttcgg tattccattt cgagcatctc gatataattac gggactcaat cagacatccg 240  
agtaaaaagt tattgtagtt tcaatttgcg canggcttcg gtattccatt tcgagcgtct 300



cgatgtatta cgggactcaa tcagacatcc gagtaanaag ttattgtcgt ttgaatttgc 360  
tcagagcttc tacatttcac ntcgagcttn tcgatatatt .acgggactc 409

<210> 30176  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30176

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tgtctgattg agtcccgtaa tatatcgaaa agctcgaatg tgaatgtaga agctctgagc 180  
aaattcaaac gacaataact ttttactcgg atgtctgatt gagtcccgta atatatcgag 240  
atgctcgaaa tggaataccg aagctctgag caaattcaaa caataataac tttttactcg 300  
gatgtccgat tgagtcccg aatatatcgg aacgctcgaa attgaatgct gaagctctga 360  
gcaaattcaa acgacaataa cactttactc ggatgtctga ttgagtcccg taatatatcg 420  
agacgctcga aattg 435

<210> 30177  
<211> 342  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30177

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ttctccctt gattgaatct cagcggctcct cctaggttgt agccttgga tctgtggcgg 180  
ttctgagctc ccatgtagtt cacctccatg taagaatcta cttgngctat tgattgcctt 240  
gtttcatgtg ctccatcaca gatatggcat cccctatnt gcatgagtga agagtgagag 300  
ggacttaccg cttgtaaag ttgagggagc ttgctgaggg tc 342

<210> 30178  
<211> 447

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30178  
  
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 atctcccaaa accccatacc cacgaaaatc aagagggaaa gaagtccacc caaacctgaa 120  
 atttcgaagt cccactcgta gccacacact tcacgactcc aaaaacgccc tcctttcacg 180  
 atttggggca gaaatgatgg ccaaagggtg aagctttgct tggagcttca atggagaatg 240  
 aagaagaaga aaatggcaac gtgagggaga gagagagctg tctgaaaagt gtgggggctg 300  
 agtgaagaga gagaaaagct ttttggtttt aaataaaagg gtttttctct ttttctatta 360  
 ttttattcaa gctctgccac atgtccctat ttgagtggag cagaaggacc cactttcnct 420  
 ttntactgtg acccactc agccaca 447

<210> 30179  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
  
 <400> 30179  
  
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 ttaagtgaag cgatgatgtt cagaggcgga ctcatgaggg taccacttgt ctccatcage 120  
 atccatacat tgattacaag tgtgagtata ccccgctttc acctgcctta acgatcgta 180  
 tgagcctcat ctgcctgact aatatgtgat gacaagagac gaccctacta tgggtcgatc 240  
 tcggatgcta gcaccaatth gtatgcacga ccgtattagt agtcaacgtg tcgtatcgcc 300  
 tacttgcaac gtagccaccc ccaaatacat atgtgcggag gagatgtcct ccgccgctga 360  
 cccaccacag aatgctgcc 379

<210> 30180  
 <211> 338  
 <212> DNA  
 <213> Glycine max  
  
 <400> 30180  
  
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caatttcaat ctctggagac gcttaaacct tcagcagtat atagcaatta gatatacaaa 120  
 cactatcact agactttgca tacatcgaag caccctatat aaagtaaaca aacttgctaa 180  
 agcaaggaac atggatcgat ctgaattaat tcccacaata aatacccaca agagaaacag 240  
 aggctcgac gtcacatcc acggccatgt gacctctctc tctctgctgc atggatatat 300  
 ctttaccatg gagccggaca tcaagcatat attgcca 338

<210> 30181  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<400> 30181  
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 ttgtgataaa atgttgata ataatgctct cattttctgt gtgtaattaa ggtcctccgt 120  
 ccattcctcc ttcgaacgtt gacctcatat gttgaaatag gtttgccacc aaaaaaggaa 180  
 accattctca acagtagcat gtcgcatatg cagaatcaat ttataaggc attactgcat 240  
 aaggatctgt acgtcgcgaa tgcaagagga gaacgtaact tcttctaaat atagcaatgc 300  
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<210> 30182  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<400> 30182  
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 tcttaagata ctgctgatag atctatcgaa ataagatggt tttagccttt cttttctata 120  
 ttatcttaac cgtcaataat ttactctatt tattgtatca aactattttg tttgctgtta 180  
 ctcagattct atcctataaa tgttattcta gttgaaattt gtacgtatta tctcaattac 240  
 tcgatttttt ta 252

<210> 30183  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<400> 30183

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cggcgatagt gcacaacaag gctttcacat tcacaaatcg cgcctaaact cccattccc 120

tgttggtccac cttcaactga actcacgtac tcccacatag tccatattgt cgtttctttc 180

aacaccgggt ccccattaat tctcccaagc ttccccaaca tccaggtaat acaacattca 240

aacagcacia actatcacia ccaagaagac aaggcaaagt cataaaactc ttgccaaaac 300

ac 302

<210> 30184

<211> 379

<212> DNA

<213> Glycine max

<400> 30184

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aaccaaaaac ataaataagt gataaccaa atgaaatcca aacagtcact attcagaacc 120

acatagaata aaaacatata agactaaagt ccaaatacta aaagataaat aatgtgctga 180

aagcaataat caaaatatca tagccaaaat acacgactta taagacacat agaattataa 240

actaaattct aacaagggtg aggtgggtgg ggaagatcga aactctgacg aatgtaaccc 300

acatcttctt caagctgtgt gaggcgaata tccattccgg caaagcgagt atccagtga 360

tcgaaacggt caccaacat 379

<210> 30185

<211> 388

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30185

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tataacttag tttttctaac atttttctct tctgtccat taaatctctt ttacatttgt 180

ctttttctct tttatattgc ctttatcttg taccctccca cttcttctct aagttaaaat 240

taagacaaga atagaaacta gaaagggtag agtttggatt tttgcaccat atatgcatga 300

tgcccttatt gacatgaaat cttcattntc accatatgtc taggtcacca aacaaatctt 360  
aatattggtg ttttttttta ctgggaca 388

<210> 30186  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30186

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aaacatcgat gcagttcctt catacaattt tgtgtcatat attttgatgt tatttgttat 180  
acaaagatcc ctcttaagct taatggaaaa tttaactgtg caatcatatg atcaatggtg 240  
ctttaattat ggtgctgaat gttgggcaat taagggctaa caagagcata agatgtggtg 300  
cgcagatgaa atgttgcatt ggatgagggg tcacactaga aaagataaga gaaagaattt 360  
attaagagag aaattgtgag ttgcttttat acaggatatc aggcctataa tagcttggac 420  
acaagacaag aataccaata 440

<210> 30187  
<211> 349  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30187

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ttcaactgag cttaagtact tccacgtaac ccataatctt cgttctttta acaccgggtt 120  
cccaataatc cttccaaagc ttcccaacat ccaagtaatt caacatttca acaacacaaa 180  
ctatcacagc caagaaaaca gggcaaaggc aaaaaactct tgccaaaaca ccaacaaaaa 240  
tcacagcttt tctcacttaa agaccccagt aacaattcct tcatttcagg ttcgtaaccg 300  
gttgatngac tcanatattt cactggaagt ctctagtaca taaacctac 349

<210> 30188  
<211> 395

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30188  
  
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 ggtacctgga gatatgtcgc gnggtcagg agaccttgag gacgtcaagt ggggtgggtat 120  
 tgcccaaaac caagcttgac caatcccgac ccaacccggg catagtcagt cagtgagaac 180  
 ctgtgatgta cctaagcagg caagctcctg gcagtcaaca gataaaagga acaaagacca 240  
 caaagcaagg aggcttgtgt ggtggctggc cagctgtgaa tcttgtgtga tataatgggtt 300  
 atggcctctg gtaatcgatt actaagggtg ggtaatcgat tacaatgctt ataatgaag 360  
 acaggaggct aagatggtct cttggtatcg attac 395

<210> 30189  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30189  
  
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 acttaaatta ttcttctctt aatgcctggc atttttctct gtagaaaagt gggttttgac 180  
 cttacttctt tttgctatct aactggggct tagttgaaaa aggggcacat tacacattct 240  
 taaagttaag tgatttagnt ttctacatct gtatgtgact atgtgtggac taagggtgtt 300  
 gatgtactaa tgtacttctg ctgtcatcct catcctggca cataccttgt gttggtacat 360  
 gattatatta ctagcatctt agatgcctat aggcatgtga ttcccatcaa tta 413

<210> 30190  
 <211> 451  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30190  
  
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gaactatata tcagaatgtc attaaaaaaaa aaaaccaata caaacttcct caagactccc 120  
 cttaatatgt cattcataag acttttgaat gtagcagagg cattagtgag cctaaatggc 180  
 ataactagtc attcataatg tccatggtga gtcctgaaag ctattttata cctatcctca 240  
 ggtttcaaca aaatctggtg ataaccagac cttaagtcca acttggagaa aaattcagct 300  
 ccaaacagct catcaatcaa ttcatcaact gttggaatag gaaatgtatc tttaaccgta 360  
 atagaattca atgctctata gtcagtgcac accctccaag aaccatccct cttcttaacc 420  
 aanataattg gagaagaana tgggctctta c 451

<210> 30191  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30191

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 caccatttgg tcttccaaaa ggctgatgcc tangttgcc attgggccct tattacaact 180  
 tgaactacat cccttttagt tgattaaccc aaaacatatt tttggtcagc caactttaca 240  
 aggattgggc cattatttag acaaactaaa cactctaaaa ttgaaacaaa gtggtgtcat 300  
 ttagtcctcc tccatttggg ccatgatata actcacaacc ttggactttt ctccttgaaa 360  
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<210> 30192  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30192

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 ttcaaaacag aagctattag aaaaatcaaa cgacgataac tttttacacg gatgtcccat 120  
 tgagtcccat aatatatcga gacgctcgaa attgaaaaca atagcactta gcaaattcaa 180  
 acgacaataa gttttgactc ggatgtccga ttgtgtcccg tagtatatcg agacgctcga 240

attgaaaaca gaaactgtga gcaatttcaa acgacaataa ctttatactc ggatgtccga 300  
 ttgagtcgcg taatatatcg agtcgctcgt aaatgaaaaa agaagctttg aggaaattaa 360  
 gacgacaata acttttgact cggatgtccg attgtgtccc gtagtatctc gagacgtca 420  
 naattcaaaa c 431

<210> 30193  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30193

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 gcaaaagggg catcatgtgg tgcagaaagg gcataatcca tggcttgggc atcactctca 180  
 tcctcagata gctctagcac aggcgtagcc accgtcgatg cttgcaaaga agacaactcc 240  
 agcacagggt tggctactgg taatgcttgt ggagtcactc ctagcgaatc cttcacagt 300  
 tccttctgag cagttggatc aatctcttgg atgtctggct ctttaataact angtaacct 360  
 ctacaacatc tggatcatcc ttctgagtag cttct 395

<210> 30194  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30194

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 gatgttggtga gaagatttct agaagctatg taccatgggt gcacctacat tntgatttgt 180  
 ttctatattt ttgttttggc cgatgtattt ttgacatggt tagctatatt ccaatttttc 240  
 agattttatt ctcatttcct ttaatgttga tgtatatctt ctccaacttc cagcttgctg 300  
 gggaggggga tattagagat atagattagt ttagttagtt acaagttagt tactagtatc 360  
 aattatataa ggtacaatgt atttatgtaa tgagagagtt ttgctcattt gagcattact 420



ccaatattaa ttagttctac cttttcc

447

<210> 30195  
<211> 404  
<212> DNA  
<213> Glycine max

<400> 30195

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tacttcaagc aactattttc ttgggatatt ttagacttgg aggaagctat taaagttaga 180  
aaaaaaagaa gacctagttg tcataatggc tactttggtc tgtgggtcct atgaattgat 240  
agagcatagg tgcaaaactt gagagagaag gtaggagata acctacactg tgtagaaacc 300  
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gtgcatatag ctgagagctt taaagaagat tcaccctaata tagt 404

<210> 30196  
<211> 404  
<212> DNA  
<213> Glycine max

<400> 30196

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tttatttgca ccgcctagta gtagcagaca cagagaagaa gataaatttg cgtttgtctt 240  
tgaaagggtta aatattgtat gttatataga agtactaaca ttgtgaaaat ggggtcccata 300  
tttttcaagt ttatctaata tctcatatgg tgaaattata atattgtatc atactgatca 360  
cttcaataaa tgtcattata aaaaatatgt actttataat atat 404

<210> 30197  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 30197

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 ggcacatcgc ctcatTTTtac cgctactga agacaataaa agtggttaca ggaggaatga 180  
 aagatggaag aagccattac caaagccaaa ttaaaagcaa actttggcat tggaaccatt 240  
 attaggacca ttaggggtgaa tttttgacag cagcaacaaa gtttatgcc aatcttatag 300  
 tatcagagtgaagaatctc tggccttaag atggtgtatt gaagtcatgt aagaaaggac 360  
 caaactgca ttacacatat tgtgatggca ttatc 395

<210> 30198  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 30198

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 atttgaattt tcttgaaata caacaaatta tactagaaga ggggttgaat aatgtgtag 180  
 tcaaaatata aaatattttg gaagtgaagag atgttataat agacaagttt atagaaccat 240  
 tgtctagtga caaaagggtga actatcatcc aatgagatgt aaaactttgt ctttcagtaa 300  
 aaatcttggtg tgtaagggtg gacaataatg gacaatgaaa tattttataa gttaatgaaa 360  
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<210> 30199  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30199

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 ttctttggtc cttgtgaggt gcttggcatc catcattagg caatntgtga aattccagga 180  
 cataccgaan aacccccaaa atattgatgc acaatccgta agtttccgtg acaccccgga 240

aatcaaattgg aagcatcgtt gcataattaa gtgaggttcc gtaacattcc gtaagtcaaa 300  
 aggggggatga ttatgtaatc cgcaaggttc cgtaacatta cggaaagaaa acaagtatcg 360  
 ttacgaaatt cgtaagtttc c 381

<210> 30200  
 <211> 439  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30200

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 taccaggta accaaggcat ctagtttacc ttcaagcttc ttagtctcgg ctaatggaga 180  
 tgaattcgtg gctacttcat gcactcctct aatgacaata acatcacttc tagtactaaa 240  
 ttgttgggag ttggaagcca tcttctgatg gaagcttgct tgtgggggctt ctatggaggc 300  
 tggatctttg agcttcaatg gggtccttta atgggtgattt tccaccatgg agatgcagtg 360  
 gaagacaaag gagaagaggt gagaggaggc gccatccact anggaataag ccatggaaga 420  
 aggagcttca ccaccaaga 439

<210> 30201  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
 <400> 30201

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 atgttagata tatttggaca acatagaggc agctatcttt ccttacctag aaaaaaagaa 180  
 aaaagatgaa gtttaaacta cagataaacc acatgtctaa aattagtttt tagcataatt 240  
 taaaatagaa aactatatat tattccgatt gtaagcaaaa tgagtcttta gagcctcaag 300  
 gcactacaac acaggcacia taaatttaac ataaaaattc acaataaaaa ttggcttcaa 360  
 agccaagaaa gaacaaagga aaaaaaagaa caaagtttca gcaatcatatc ttgggagtat 420

<210> 30202  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30202

gagattataa taggattgta tggttnttag gtattgttta ctctcaatac catatgcagt 60  
 ttctcaagga ggggtggttga gtttcattct gctaattggt cttgcaatga tgttttggta 120  
 cacgnggtta cttctacaga ggtgtatgaa caagcatcca ctaatcaaatt cttaccctga 180  
 cataggtgag gttgcatttg ggctaagagg aagagctatg atctctacat tcatatacat 240  
 agaattgttt ttagtggccg ttgagcttct gatattggaa ggcgacaatc tagannaatt 300  
 gtttcctcat atgaacttca naattggtag ccttagaatt gaaggtaaaa gtggttttgt 360  
 ggtgctagct gctntggcca tactaccaac aacattggtg agaagttngg agctttggct 420  
 atgtttctc 429

<210> 30203  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30203

agcttttttag ctttaagaac tttttccttt ntacatgccc aactctttga gtgacatttg 60  
 tattgattat tgcattcttag tctttatctt ttcatatgta catcatgcat catcatgtag 120  
 aggtaagaag attgtttcta aagttaaaaa aattntcaat gcataaaact ctctgttnta 180  
 atcaattaca aggctaatacg taatcaatta cacaagtgtt ttagcttgc agagatattc 240  
 tagtttcagt ttaatcgatt actagttaac cataattgat tacataaatt agttgagatc 300  
 atgtttgatt tttcacgagt ctctgtttta atcgattact agatgatcat aatcgattac 360  
 tacattctta aaggtgttcc cagaagtgat ngagaactct ttaatcgatt acatcaa 417

<210> 30204  
 <211> 391  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30204

ttatcntttt atattggtat accatgctac agccgctccg gccaaagctgt cttgaaagaa 60  
atggaccaat aacttttctg ccgcagaata cgccctcatc tttcggcaat acattcgaag 120  
atgccctttc ggacatgtcg tccctttgta cttatcaaag tctggtactt tgaacttagg 180  
agggatgacg atgttgggca cgagacataa gtttgctaga tccgagaatg ggtaatttcc 240  
gaggcccttt accgctctca gcctctcctt aagcgcatca atctttccct taccctctgc 300  
gaagggaaca tattcgatta cgggtgcggg tgaagatggg acgtggcgga ctatgtntgg 360  
ttgngtagt tcatgnggg atggatcttt g 391

<210> 30205

<211> 363

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30205

tgaaaggata atattccggg taagtttttg ctattaaatg tcgcgtacct ggaactattg 60  
gaaggatgtc ttatatatgg cataagagca attttggctc aagtaaagggt gtgaagttga 120  
gtctagggttt gtaaattaag aaaattaaat aatatactcg accaaatgca ggaaatatta 180  
cccgtattgt agaaaaaaag ttccttaaaa aaagtcggtt cactatagta cgtacatata 240  
antttgatat atttaattta gtgaatttct ctggacttga actcataact agccagatga 300  
agtagataat ttttttttan atcaaattca caataaaaca agaaaaatct ctccatgact 360  
tgc 363

<210> 30206

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30206

tagcttgtat gttagagtag taccacagga cggtgataaa acaaaatact aaagacacat 60  
aattgggaca ttttactcaa ctatctttga taactcttcc tatcccgagg atatgataat 120

ggagcatctc aataacaaat aataatggca tatgatagac ataagtgcac gcatgctaata 180  
aatttaataa tttcatgttt taatgtgcac attgataatt gtgtgattag taaaatcaga 240  
tacagttgta aactttcaca ctctgactca tgagcaccct cattcccact atttaattga 300  
tagatcccct ctaacaaact gtctataact atntgtcact tcccttctat cttanatgag 360  
atggctcatc gtctcccccc ccccccttca tgctctagag gatacaa 407

<210> 30207  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 30207

gcttgaagaa gtttgacttt actatcctaa ctcccttgag tggcattcgt attggttggt 60  
atcttgtatg ttgcatctta gtacatatga tatcgtattg catcatgtat catcatgggt 120  
agtgtaaaga aaagtttctt caagaggcaa aaaatctttg ttttaatcga ttataggttc 180  
attgtaattg attacgacat gttgtctaaa gcttgaagag ttgagtctca tatcggttta 240  
atcgattaca ttggtgtttg agacaatgat tgattttattc aagagtctct actttaatcg 300  
attacgaagc ggattaatcg attacttctc gctcgtctag tagttcaaaa gtgaacaaaa 360  
acactttaat cgattactta gagcatctaa tcgattacat tgttcttgag ttatttt 417

<210> 30208  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30208

gagagatgaa ggaccacgat ccagacagtt cgagagattt gcggagcgaa gatttgcaga 60  
gaccagagcg cgaacaggaa gccgccctga gagccagaga tgaggctgag agcgactgag 120  
aggccctaga cgcggaagag acatccccac aactagtacg acggcaaacc gtcaacctct 180  
acactcccgg ttgcaaagga agcagactag ctatggaaag ccaaatactc tgctggatct 240  
cccttgacga tactngatgg aaatagcagc atatctagac aacgacaagc gcatgatcac 300  
tgagctatca gaacagcata ccgccatgct actgcctaga ccacgtagat gcatgggctg 360

cgaagattat acaccagtgc aaaccg

386

<210> 30209  
<211> 446  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30209

cttctacaga atgatgaaat ggattcggct cttttatnat gttcttatgc agntttgatc 60  
tgcagaatgt tttgctattn tgggtgttgat acccacgagg aagttgttgg ttttgttgag 120  
gtagagtttg aagtgaagac caaagttttg aggcagatgg tgtacatcaa gtctgaagaa 180  
gctgggttta atggattgag aatagtagaa aagatcaaac agaacaagaa gatacagaaa 240  
ataagccctt aagcctcttt gagcagatga tgtagcaaa gatgcatgag ctcatgagga 300  
tacatgaaga agactatgct aagcttaagg agtgctctga gtatattgta gaagcaagct 360  
tcatgatgaa tcaagattga ttcanggagt tttgatgatg acaaagatga tngacataag 420  
ctcacaagta aagatcactt catgat 446

<210> 30210  
<211> 450  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30210

tgaaatcgaa ataaggatat ttgcgactca atctaaaaaa taagggagag ntgtctgtta 60  
cgcgatgact ggcccgggac ctaaacaacc gaggcacaac caggtcttta gctccacaat 120  
gcaccagggg gaatcatatg caacaatatc cgacgccatg gaatgaccaa gacaaactct 180  
aaccaccaa acaccttttc taaatgtaca aagaccaaac tacccaaccc tgctctcat 240  
agctacgcta ccaggataac taatacacta gaaaccaaag acaacgaaaa caagcccaag 300  
tacgaaaaag ggaccttgca tagaacgaac aatgcaccaa taaacccatc cacgaacgaa 360  
atgatataat gaaaacacaa gaaacccacc attcccaata cgaagcaagg aaacaagcac 420  
ataatctaac gagaaatacc aaaagcaacg 450

<210> 30211

<211> 490  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30211

gaacctaact atttaagaat ttcattataa anaannnnnn nnngaggaat gatctctaac 60  
 acaanaannn gnnnggaggn aagnaacgaa gcagagcacc ttgtttatct tctgcaacta 120  
 cctgaaggat tttttgtgat gacagtatac aatgttaccg acttgacttt gagtgccatg 180  
 gaatgataaa gatccaactt tgtattcacg gtggaataaa tgggtgtaat gagaaaaaat 240  
 tgattggggtt gaacaactgt agttttattgt tgagatactg tcaatgggtct atggatattc 300  
 ttgatgcttg gctccattgg ggcctcaggg gaagataata gatgaagctg ggaaagtgtc 360  
 cactatggag ctaaataata tgcctagttt tgaacacgag atcaatctgc tatagggttat 420  
 ttgttgcaac tgagaaagag aaatgtggtg acaagggtta ccttagatca ctactactgc 480  
 atagtattgg 490

<210> 30212  
 <211> 566  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30212

atacaacgga gtagtaagaa acagtaaaca cagtgaaaaa gcacgagaga tanantntna 60  
 annannntnn nnnnnnannn cnaannnnnn nngaaggaag gactgagtcg tagtanntnc 120  
 gncannnnncn nnaannnnnaa nnnannnnnaa nggnnnagaa nnaaaaagaa naaaaaaaag 180  
 agaaaganga aantatttat agattatgag taaagaaaag aagaagagga aggaggagga 240  
 gagtatagaa tagaaaaaat gaaaaaatga gaagaganga taaaagaaaa ggaaatgaag 300  
 gaatagaaag aaaaaaagag aaggagagaa gggaataaag aaagaaagaa agaagggagg 360  
 agagaaaaga atgaaaaagg aaaaaaagga aaaaaaaga aaaaaaaaag aaaaaaaa 420  
 aaaggaagaa agagagaaaa aaaaagagag aaaagtaaag agaaaagaaa agaaaaagaa 480  
 aaaaaagaaa agaggaaaaa aagaagagg aaaagagaag agaaaaaaa aaaagaaaag 540  
 ataaaaagaa agaagaaaaa aaaaaa 566



<210> 30213  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30213

agcttatgac aatttgaaat tctcgagagc ttctgaagat taattntgag cgtctcgata 60  
 tattataagt cttaatcgga cctacgtgtg ataagttatg aaccatttga atttttgaga 120  
 gattccggtg gttaatttcg agcgtctcga tatattatgc gcctgaattt gacttgcctg 180  
 tgaaagggtta tgaccatttg aatntctcaa gagcttccgt tattcaattt cgagcttctc 240  
 tatatgtgat gcgcctaaat tggacatccg ggataaaagt tatgaccatt tgaatttctc 300  
 anaagggttcg gtagttcaat ttcgagcatc tcgatatatt attcgctga atctgacatc 360  
 cgtgtaaaaa gttatgacta ttttagttta tcgggagctt ccgttttc 408

<210> 30214  
 <211> 316  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30214

gtgtatggac catatcgtag ccaattgtgc tcatcgataa tggntccagt ttaaactgta 60  
 tgcctaagag cactttggag atattaccat tcaatgcttc ccacctaag ccgatttcaa 120  
 tgatggatcg tgcttctac agaaccgcc gagaagttaa gggagatatt gatctccac 180  
 tacagatagg cctcacacc tgtcagggtta cttccaaat aatggatatt aacccccctt 240  
 acaactgtct gttgaggcgt ccgtggatcc tctcagtggg agttgttcac tctacactcc 300  
 accaaatggt gaaatt 316

<210> 30215  
 <211> 302  
 <212> DNA  
 <213> Glycine max  
  
 <400> 30215

ttgtgtagga tggatctagg atatcggtt aaatactcat gcaaataac ctttcgtctt 60

caacactaaa ttagggaaaa ctttctattc atcttgccca attaagaaga aacctccaat 120  
aaccgaccaa tgatgatagg aggaaaaaga gtgtggcctt ggcagaaaca tcgaacacaa 180  
ctttactcac gatggagtga gtccgaccg tgatcatgat tgaacaaggc cgatgtgggt 240  
gagatatgga tagatgccca tgggggtgtg gcttggattg ggttgggtgg ggcattttga 300  
tg 302

<210> 30216  
<211> 392  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30216

aaaaccatta aataaaagct gaggacaaa atattaaaaa tactttaatt tatttacaa 60  
tgcttttctt attgaaatta gtagaaagca ctcccatat gtcagtgact tcaaaaaaat 120  
ggaaccacat aaagaaaatg agagtaattt tggatcttta tctacctata ccaattggat 180  
tgacattatt caataattta aagttactaa aaaggttcta ttcaagacct ttntccactt 240  
caatagactt ccttggtata aatataagaa aaataactga ttacatagt cgacatcggt 300  
taattatatt aatcttatta aagagtaatt ttntcaact attctgtatg gaacttntat 360  
tatgtatata aaaatcatta aactaatact tc 392

<210> 30217  
<211> 325  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30217

agcttttatt ctaattgcta agcgacagct tattcgtggc taagcgtgac ctattatcgc 60  
caagcacaat tccttatggc cataattgag gtccatgacg ctaagtgccca gtcatggcag 120  
ctaagcgaga ttcattgtgg taatatgagt gctaagcgag tccctctcat ctaagcgcat 180  
gtcctctgt acttaagatg catcatttta gctaagctgg ccagagcctg ncttagcgac 240  
agttgcaact tttctaattc gtagaccttg ctaagcgga gaataaatgc gctaagctaa 300  
gccttttctc ccanaaaaaa aactt 325

<210> 30218  
 <211> 345  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30218  
  
 agcttgngtt gngctaata gngaaangan ngaccaaagg gaagacaaga gccatatcta 60  
 cggtaaattg cgtgttgacg ggtcaaatat tgattcggcg gagttctagt tgtaaaacca 120  
 gttcatgaaa gtttacatta atgttataga cttgtgtgag atgagagttt gtcctaaaat 180  
 taccctattc tcattttcac ttctcaaacc ttgaaatcca ctagattgac gggttttata 240  
 tacctacatt ttgagttgct ttggtctgaa gcttgtctct gggtttacata tgatttatac 300  
 atgactaacg acttgttagga tccaatctac gaaaatatgg atgat 345

<210> 30219  
 <211> 98  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30219  
  
 tcatgcgtag ctaccatgcg ttttaagggca ccaataactg ccttaccata atacgcatcg 60  
 ccatgcactc atctgagtac tgatgtactc attaagcn 98

<210> 30220  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
  
 <400> 30220  
  
 cactggccat cgtttacaac gtcttgactg ggataaccct gtcattacac cgcttaaatcg 60  
 ccttgctgca catacccctt tcaccagctg gcgtaataac gaagaagctc gcaccaatca 120  
 ccttcccaa catgtgcgca ttctgaatgg ctaatggcgc ctgatgcgag atcttctcct 180  
 tgctcatctg tgctggattt cacaccgcat atggagcact ctactacta tctgctctga 240  
 tgccgcatat ttgatccaga ccggacactc cgcgacatcc tgtgacgcga atcctgtggg 300  
 gaagcaggca tttaaattgc gatattgtga gcgtatataa gattaaatat accgtattct 360

atttgtgaga tatgaaggat aatg

384

<210> 30221  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30221

gtgcngatat gagaggtgag cgtgtctatn tatkataact ctgcactgga ccgatgtgag 60  
ctatgcaacg accataggag aaatgagtgc gagaaatgag acgatacatt tactgccgac 120  
tatgctatgc gctacactga gtacaagact ggaatgggta tgaccatatt caatgtcgat 180  
cggaccgttc tgttgtcact ttcaatcgtc tgtagttatg aggcgctcta atatggtcac 240  
actggatata tgttgtgacc atctcaatag atccattatg ccggagcacc atgaacgata 300  
cacatgatat aataatactg cgaatctgac gcactctgca taaggtaaga ctcatctaga 360  
tatatgagag cgcccatatg actatgtaca gcgattgatt cagagat 407

<210> 30222  
<211> 496  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30222

aggcgttcat ttctctgnac acancncann natnatcgtt cccgggatac actagagngg 60  
ancngcatgc atgcatgcaa actttattgt gtttcaacac ccagcgncaa aggggggaggt 120  
cctataattg catatacttc ctccccccac gaacctagca ttttccgcac aaaccatcta 180  
tggaaaaaag atcatattaa actacaatcg ctaacacaac aatgggtgtga attgattcac 240  
ataacacggc gattcgcgaa agttgcagag ttctggaaaa cctgtataaa cacgatcatg 300  
tgcgtttagaa cggcacacac gtgtatcatg aagtttaa atccttgtat acgcacttct 360  
gatataggcc catgatgaca agcttatttg gcatcagttc tatatgaact ggtggaagaa 420  
atgcgtgctc attgcaaaga agcggcacta ttattgcgtc tgtctattgc cacgtgaaca 480  
tattggttaa gatacg 496

<210> 30223

<211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30223

cgcattgctat ctttcttggt ccatacctgc acacgcgaac atttggaag ttagtttttg 60  
 tgggacatat actcttaagc agaaatggca tataacctcc tcccataaat acaaacatca 120  
 atgtatattt agagcaagct tatgtgcatg tttccttacg aacgttcact tgcggaagat. 180  
 atcctattaa ccgaaaaaat gcacccatat acaatcaagg cagctntggt agctagatta 240  
 ttacacgta cttccaaggt gtatttggtta ctacatcaca cacatctcct tggctaaatt 300  
 cacatacatg catactccaa gcatttgggg taccaaaaat tgcacatgtg cacatcttgg 360  
 tatttctaata acctatacat acacgaactt catgatgaat cttgactatc tacacaata 419

<210> 30224  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30224

tttctcgtc tccaccctat gcanaccgc cagtgccgc taatagcgtg tctcgtcaa 60  
 cgtaccggca aggaattaca accatatatg agaccaccg aagaaactac ctctccgaat 120  
 ccaaacttcc ttcgcttgta gtactgccct aattcccaa attcgggtct gtgctatttc 180  
 ttttttatta ttgtactttc ttctcagatc ccggaggcct cttccctccc tgtctcaaga 240  
 gaattccccc gattttctcg agaaagtga acggaattat gagctttcag gacatctaag 300  
 ccgggcgccc cttcggttcg aggcgcgggt ngatgaatgg gaagcaagac cccacgcaag 360

<210> 30225  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30225

agctttgttt aatttggttt gacaataact ntatacagg atgtccggtt gagtcccgt 60  
 atatctcgag acgcctcaaa ttagatccg aagctctgag aaaaattgaa ttgacaataa 120

ctttatacac ggatgtccag ttgagtcccg taatatatcg agacgctgca nattgaaaac 180  
 ggaagctcgt atgaaattca cagacaata actntntact cggatgttcg attgaatcgg 240  
 gtaatatac gagacgctca aaattgagac tagaagctct gagcaaattg atatgacaat 300  
 aactctatac acggatgtcc ggttgagtcc cgtaatatat cgagacgctc ccaattgaaa 360  
 cggagactct tatgaattca aacgacaata actttttact cggatgcccc acagagtgtc 420  
 gtaatttatc 430

<210> 30226  
 <211> 495  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30226

ccccaccan ngggaattca gtcangacat cgnnaataac atcgaccccg aactttgatg 60  
 acctgaggca tgcaagctta cttctttntt agtaatgacc cactanccta gaggggaatat 120  
 acttaatggc cttaacccta ggcattgaaa aaaactttat ggctgagtgt aacttanact 180  
 tgggtgcacc aaaagcacc ccaacagccc acaagtcagc caccatttgg tctccccaaa 240  
 agctgatgcc taagttgcca attggccoct tattacaact tgaacttaac ctaactaaaa 300  
 gccgctttta ttgattaacc caaaacatat ttttggtcag ccaactttac aaagattggg 360  
 cccatatttt aaacaactaa caccttctaa aattgagaca acatgagtaa ttagatcctc 420  
 tccatttggc cctaaaaaac tacaaccttg acttttctcc tagatactgg gctggattca 480  
 aatagttgga caccg 495

<210> 30227  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30227

agcttgattg ctttctttgg ctgaccctaa tatatgttac tcaaccatga aacaagtttt 60  
 gttggataag catgggcctt gaaccaagta atttgatgca actatatcga gcanagagaa 120  
 aagtcatgaa atactagagg ggtcatgcat atcctataat gacttgctgc ttggctctat 180

cagtaataga aacaatcctt ggatatagtg aagatagctg taaaccaagt ttgatttgat 240  
 ccccaattta aaggatattc ttgcttgat gatataaaaa aagattgtga aggggtgatcc 300  
 catggtcaga atgatgggtg catttaaagt tcttatgggg aatctattat ttatgtgctc 360  
 ttgtgcaaca gggttgtccc ttgtattga gt 392

<210> 30228  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30228

agggaggtga aactagtanc nctgcgacac anatacacia gcttatcaca tgtanctgtt 60  
 ggcattgacat tngaaggga gaagcatttg tgttttggag tacttngggc cactatgtga 120  
 tgccatggca aagtcttggg gtggccctg ccctcaactg gcattctctt ggcagcaaag 180  
 tcaggtaatt gttggagaga tgtggtgact atgccctgaa ccctccactg tatgtcttga 240  
 ctcatggcct cattcaaatt gtgacaacag gcccataag gtcggattca tgaacaccct 300  
 ttataaaacc tagctggagt ttgtcattgt caatcacttt attactctat gaagagttaa 360  
 aaatcagcgc ttctctatgt atcttcttag taagtttctt ttcttgcaat ttgcatagga 420  
 cctctatttg tggcgggccg tctctctttt gcttatatgc ttg 463

<210> 30229  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30229

caattatgaa aattaatttt tgtgcgagat ttaatgttgt cacatgagct atacttattg 60  
 gataaagtat ataagtatac tactaattac tcatacaaca tctaaattaa taaaaaagat 120  
 tgcagtgtt atataataat tattagaaag atatatnaag agattaataa aaagatgtat 180  
 taggttctat tgatagaggt atactaataa aaaaatacaa cgaaattcat tcagcatcgc 240  
 tatttttttt ttaaatttag aagtatgaaa tgaaattaat ctcttttgca ttatacagta 300  
 gaaatatata aaaaataaaa taattatttt atttatgatg gctcattcta gtgtatttca 360

cttaaagttt ctccattgaa atttctctta ttgattctgg atc

403

<210> 30230  
<211> 489  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30230

gtgctgcgtc gtantctaca cnaaattatc taagctttga gatactangg atntgatgaa 60  
gaaattgacc ttatctcatt ttttgaatga gggagcgaca atcggatgtg gatttttagta 120  
tggtgatgtg agtcctttgc tacgtgggtg gggatcaatg atgaatgatt tttatgaatt 180  
ccgacctcga gacattagcc attgattggt aatcatgtcg tcctcatacc aatgtgtgtg 240  
gaggagaaat cctatatggg tgaatttcac ccttaggtcg ggagtatgta ggtttactat 300  
attctctttt aggtaatgtt acttgtcaac tgcattatat acttgcccta agcctttgta 360  
gcaaaatgtg gcaaatgcac tgatattatg caagtcctat ggtacaatct ttaatattca 420  
tcggacttga tgatttggtc ccttcccaat ttatgacgag gtttggcatc ttggcgagac 480  
ttggtgaan 489

<210> 30231  
<211> 474  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30231

aggctttctg tcnctcgaca tncnannanc natnatagna nngnggacnc tccggaggcg 60  
aaccgcgagg cagcgagccn ggcttttttt cttttttttc aagccaaaac tgagggggat 120  
ggggccctat acctttgaca cactcacga cacctaagtt ggtaaccaat tatggcacgg 180  
ggtgaaaata actgggttca atctctatat cctatatattc ctccataacc tacgggggtg 240  
aacatgaccc aggatttgga attgactttg tttgaaactt aatctaactc gcaaaatgtg 300  
tctctatccg ctaagccttg gatggaaaac cctgcatctg gtattcaaatt attttctaaa 360  
gataatttgt ttgcgagtga cctcaataat ttattacttg gactttaccc ctttatccga 420  
acttttttat taaataaaac tcatactttt attaaattat gcactatata gccg 474



<210> 30232  
 <211> 591  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30232

cagccccgat ggacatttgc ccagggttaen ngncnacnna tcagngcngn aannnanatg 60  
 ctatggnnac gcggcngga ggcgactcn ctagtacgag ccctggacac gcgataggcc 120  
 antgccanan gcanttgnaa tttntnatg ntatancagn nacaccacgc cctnncgngc 180  
 gggggacnac gtggtagttg taatactact actcctctaa ttaattgaac attccttgag 240  
 ttcgattcaa tttagaaata aaaatctacc aaatagagaa atgagatcta tatatttaac 300  
 tatacttttc agaaaataca tgcactctaa taggcaccaa agactatatg ctataccact 360  
 cctaaatcta caattaaagc tacgtagaga agctaataaa aaaactttat attcaataga 420  
 atgcgaatct tacattaaat aatcatacta atggatgaca attatacatg tgtcattata 480  
 taagatctta cgaatttaaa atcacctcaa tatatatccc gagaagtcac atctacaata 540  
 tcccggttta ttaaagttac ctattggggc tgattatacc cattctatcc g 591

<210> 30233  
 <211> 395  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30233

agctttatct actttgatgg aatgaatcca tatggcaatn taagcactta acacaattca 60  
 tggccaattc tactagtaat ntacaaatct tccttccttg gttgtgcatg cagtgaaaat 120  
 acatgatgtt gtcgatgatg atatcangcc caagacagcc aggaaatgac attgatgttt 180  
 atctaagtcc gttgattgaa ggcctgagaa agctgtggga cgaggggggtt ctagtgtntg 240  
 atgggtttca gaatgagact tttctaagtc atgcaatgct gttttgtaca attaagtact 300  
 ttccagcata taggaatttg agcagttaca gtgtaagggt tcatcatgca tgccccatct 360  
 gtgaagaaga cacaagctac atacaactga nacat 395

<210> 30234  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30234

agcttcatta agtttcaaga tngattcaaa gagtgggtgag gatatcaaag aagatgacta 60  
 ancgctcata agtcaggaac acttcatgat aacacagctg atgatctcaa gaatcaaaga 120  
 atgagtttaa gattgaatca tgtacacttc aaggatcaag aggaaagttg aattcaagaa 180  
 tcaagtttca agattcaagt tccaagaatc aagatcaaga ttcattgactc acgattcagg 240  
 aattaagaga agactcaatc gagataagtt ttaaaaagtt gtttttaaaa aataaactct 300  
 gaatagcaca tgaatgtttc tcaaaacctt ttaccaaaga gtttttactc tctggaaatt 360  
 gattaccaga ttattgtaat cgattaccag tagtaaaatg attctcaaag aacattcaaa 420  
 ct 422

<210> 30235  
 <211> 115  
 <212> DNA  
 <213> Glycine max  
  
 <400> 30235

atgctctatg tgcgcactgt gctatcaata ctaaattcta gtagtgcctt tgccctgactc 60  
 acgcacatgc gtgctaagtt aggagcattc aacattgggg aatagtttga tcctt 115

<210> 30236  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30236

agcttgactc gctcatatta ncatgannat ctactatgcg agtaatttat tatctatttt 60  
 ccatctgcca acactcatga atagatatcc ttacgacccc actaatcctt tatatgtttg 120  
 acttggaag caatttgga cgccatttcc agtttgggtcg aaagattgaa gacttgatgt 180  
 tcaatgatgc acctgaagag ggttggtgtgt ataattgttt ataattcctt atagtttctt 240  
 gctatggcac atctagtcac gtctagaatt ctatttatga aacaattctgg ttgcaatgtg 300

tattagttac tctggttgaa atcacgaggt tctagatata gatggcggaa gagagata 358

<210> 30237  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30237

agctttttta taattatcat cctctgaaat cagntcagag tatgcaagct gccaatacca 60  
 tcaccaaacc taccactcac cacaatcaca tagtgtatac aaaaaaatta tagaatataa 120  
 ccgctatcaa tctttcccaa tgtgttacta gataaaatta ttagcatggt tagattacac 180  
 gcaagaatca attctaccct ataaaataat ggtgatacca tggaaaagta taagcaacta 240  
 tttgtggttt tgccttcacc atgaaaaaag tagctgttcc tagtaaagga cagtaggata 300  
 acattaacat cagaaaggac caaagtcatt agcataggac caatattagc atcaagtttc 360  
 cccttgtatt tcatacacac agagagctgt aggtcttatt tgggtccgcat caccctttgg 420  
 ga 422

<210> 30238  
 <211> 459  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30238

gctataaac tcactcaact attagtatga aagaaataa tcttgctgat atcncgaaat 60  
 actcatgatt gtgtatgtga ctntaaaagg tcatgtgtgt gtcagtcact ttaaaagggt 120  
 atatattttt ttttatttta atgtggatca ttcagataat agacacatgc accaagcatg 180  
 aacgaaacta gaaaaatatg ttaagggggc aaaattttaa cacattatan acaagattaa 240  
 aaataactaa attttaatta tttattatct aaaatgtagt ttaataaata tgaaatatta 300  
 aataacatat aaaagtggct atnattacct ttaatgcaag attatacgga aattgttgaa 360  
 atttgtggta taggcacatg gtggaataga tcaaaacat tgtttttctc taaaatgtgt 420  
 gtttggttct acgatggaga attatttcca atttatatt 459

<210> 30239  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30239

tcttctttnc ttaagtggta tccggcatta cattgagact cgatccattg tcgataaaca 60  
 cctttgcgac aacatgggtcc atacactgta ccgacacatg aagagccttg ttgtgtcctc 120  
 tccccctctac ggggaatctct tcttccacag acgcgatata attgatgggtg gttatatgat 180  
 taatgatgcc ttcaaaaccc tccattgaga tatcgtgcgc tacatgggca tcattgagga 240  
 cgtttatcaa cagcgtacga tgaggctcgg agtttatgag cagttcaggc aacgacatcc 300  
 ttgctggagt ttatttcagt tgctcgacta ccttaaactc gctgtgttgg atgacgcgaa 360  
 agaactcatg ggctcttcc a 381

<210> 30240  
 <211> 528  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30240

cgggccctcc ccnnnnnnnn ngngttggaa agtcangnan cgnncnctn gatnaatnng 60  
 agcgnagctc ccgtggagcc tcttgagtcg atgtgcacgc atgtttgttt cattaanagg 120  
 cgtctcgac actcgggagg tgggtgattaa gatcacaacg gccaaatcat ggccgctcgt 180  
 atagtgaaga tgcatacctt atagcgagat gattctgcgg taatcgaaga ctcgtcatca 240  
 tctatcgca gctccttctt gatactaatt ctaagagcat cacatagaaa gcttctccat 300  
 aatcatatct gagagtctt tgacaagcga ttcaggaag ctattttgcg atgctagagc 360  
 cttatcgatc ctcacacctc tatcaagtat atgaactacc gctggaatta ttctcgaaa 420  
 tgaataacga caccatgtat ctaccgtcct acatcatcac gtatgcaata ctatctgtat 480  
 attctcgcgg tgtacatcgc acacacactc tccgcatact gtggaccg 528

<210> 30241  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30241

attgtgcaag caatcaatga agcaaaacac accaaaagat tatgatgatg gatgactcaa 60  
 atgctcacia atgtgaactt atcagtgttc aagtgagcgt ttcaatctat catgacatgt 120  
 agaggcaaaa caaagatttc agatcgcaga atgtcatgag actattatct ccagaacaat 180  
 taccatttc ttgagcatat gctacagttc agagaaaaat atgcatagtt gtacatacaa 240  
 acanaattga cctaaaatat taaactagag acccaacaga actaacaat ttaacacgaa 300  
 cgaaactatc agaactagca aaacgcaaac caatgacact cccccccccc ccataactaa 360  
 tacacatggc ctaat 375

<210> 30242  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30242

tttcatcaat tcacaaacaa atctttgagt gatgcacttg aaatatttag aggattgttg 60  
 aganagatgc ctactcatgg tttttttgaa ccaatacaac tcaacatatt tatagatgcy 120  
 ttaagaccgc aatctaagta gcttttagat gcttcagctg gnggtaagat caaaatgaag 180  
 acccctgagg aagcaatgaa nttaattgaa aacatgggtg ctagtgatga tgccattntg 240  
 agagaccgag cccacatctc aaccaaaaat agtttattgg agcttacatc acaagacgct 300  
 ttgttggcac anaacaagtt gttatctaag caactggagg cactaacaga anaacttagt 360  
 aagttgcaac tcagcttcat tttgcacaaa cttcacattt tt 402

<210> 30243  
 <211> 530  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30243

caggtagtnc cttgaaantc gtcgacacna nacatatact cnagcttcta tatcagctga 60  
 agccgtggta tcaataagcg acaagttgag tcttattcan attatgagag ngatatctcg 120

ttatcttaag tgagaggaga ttctcccgag atatcttgag tgattgcaag aacacccttg 180  
 gctgtatgca aggactttca caacctttgt gagttgccct cacttggaag agtgattgtt 240  
 ttctctgctt tcgatcatca cgccttggtc ttccagacca caattccaga aaatccacct 300  
 cttgccagaa ttatctgggg gccataactc ccattttacg cactcaaatt aagtgattct 360  
 tgagcctaga ttgaatttca gaacgagacc ttccacctgg gtgtaggaat cacctcattt 420  
 ggagccctgt agctgcaggt attgccattt ctatatttct gtgcagccac cacttaacct 480  
 acggtgtacc atcccattca tgcattgtat gccagaacc accttattan 530

<210> 30244  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30244

tgtatctttn tttcttgctg cccaatgcat ctagtagtgc ctatttcagc tgaaatggaa 60  
 aagcaaccgc ctacttggga aaatgtatat tgttcccgat gaagacgacn gagacactgt 120  
 ctctgtctgtg tcagaacttc cttgctgtgg catcctcaaa gactgtctcc gtctgtcaca 180  
 ctcgactcac accacaccca attgtgataa acgcgctgct gtaatataat tanggggtgct 240  
 ntaatattn ttttattaat atgattgaac caacaactca catatactac ctaactgaga 300  
 gaattttgat tntgaatntg aatttcaaca cataattagt tgaattttta ttagataata 360  
 tattattaga tctgtttatg ttagttcact attgatcggg taatac 406

<210> 30245  
 <211> 507  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30245

aggagtgcac cncctangat tngctgcaca nanaatacac aagcattcgt atgacctta 60  
 ccatgattnt gtcctttag ctccttaat caatttctta agaatatggg caacaaccac 120  
 tttggtaat ttataatttg atgaccgggt agaatcaacg ccattacatt ttcttctta 180  
 ttgggttttt ttttaacccc caccatcct atattatctc cagggtgtaa ttcttgtgt 240

ttctgttggc ggagtcttag gccgagttct tgcttgttct cgaggggttg gtttatttgc 300  
aactggaaga cataggtgcg ggagacaaag acgtacgtgt acggatatcg ggctgggtctc 360  
tggattggat tccattggac agagcactac tattatcagg tttacttgtg atgatattaa 420  
gaaaagcacc aagaatctct ccagaaatac atagttggaa gaggtggtac aggattggta 480  
caaggctttg cttctaataga agcgaag 507

<210> 30246  
<211> 373  
<212> DNA  
<213> Glycine max

<400> 30246

cagccttctt ttttgattag gaaaatttta tccaccctaa ttaagttgga aatttaggtg 60  
acagaaccaa aattaaacct gctcttaaata aaagaattat ttcttagaag ttaatggtaa 120  
tggactaata attttaacct tatcattcca ttaccaatca ttattgatta taattttaag 180  
aatatttcat aaaaatcatc aaatttatta tatatgatgg gttctgatcg gatgaaagtg 240  
taaattattt tacagtgata atgtataatt ggttttctca atttttctt gataggacta 300  
gtgctgggat ttatctaaag aatgaaaaga tagtcatgta acttccaacc ctgagcaact 360  
gaatgcaact act 373

<210> 30247  
<211> 533  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30247

gggattctgg ccttgatcat ggcgacaaca ctaacaagct ttgccacaat cacacttgtg 60  
ggtctgggtc tttcctcgta ttattattat caaatttgcn ccgggcccaa aaccacttac 120  
taccaggatt ctgtgctttg tctngtgaga agtagttggg tgtaccaga ccaagatacc 180  
gcattcttgg gttgagaaca aagaattgcc ttgtgcttgc tgaggtgggtt attattaccn 240  
cganggaatc atttgattgg ggttggcgct tattaaacat ccccaaaca cctgtcttgg 300  
attgagatgt tctttgtacc aaatacccac attaacgtta ttgggaataa cctggtgatg 360  
tgccattcat ttcttctatt ttctaaaccc tttttgcacc atgttaatta ttgattgatc 420

ttaatgtca atttattacg caggtatatt atttgggccc attaagctta tgtgatgttc 480

ttatctattt cagcattaat gaacattggc ttgatctgct ttggcttgat ttn 533

<210> 30248

<211> 517

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30248

ccccaggggg nnnaaggggt ggcttgccct gtatatctgc ganaccactn ctacngagc 60

tgctntgagn agacctagat gatggcagcc tcctattatt gtggcagggc ggcctccctt 120

cactttcttg tctccaacgc gacctctgac cactgttctt ccttcccgcg atgcttcttt 180

catggtccgc ctaatgggct tatagcccta aacatacttt ccacgaattc cctgggggtt 240

tatcaagcta gntatgctgc attgtctttt gctaaacca tcccgggtca taaaccgtcc 300

ctacataact cgggccatca taccgcgcga tcggacagac aagggtgccc aaagaggag 360

tccacggagg aaatgctgac cacctcaaaa gactgganag cggtttctaa cgattcttct 420

gcggcttcca cataaggcat ggaggatggg cagcttacca agatatcttc ctgcctgac 480

acgataacca agtgcccctc cactacgaat ntcagcn 517

<210> 30249

<211> 368

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30249

caaacattta acttgaacat ctaaaaaaat attagcattt aagcattgcc cggctataaa 60

atcccaattt aaggatgtca cctaacattg atgaacttga aataccatag tgtgctgtta 120

tagattttga acttgtaaag ggggaaagca tacctacacg agtatgcttt tcctgtttct 180

ggcaagttaa gatgttacca aaacttaa atgtttccat ttgacacaat atttaaatta 240

tccttatttc acttaaaata aacctcttta ctggttgatc tattttataa acctcanaca 300

tgatgcattg ttattggagt atgattgatc cagctgataa tttcccccat tgatggtaca 360

tattatat 368



<210> 30250  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30250

gagcttcact tttttaattt taaantataa aatttcactt gagttataag agtttttaatt 60  
 aagatatgaa aataaatatg gccaatatg tggttttttt ggaaaattat tatacacatt 120  
 aattaagtcc gtgccttata ataaaaccgg ggtaatatta tccgaatggc tactttttatt 180  
 ctattctgtg acatgtaata ggttttgcac tcattacctc agggacgaag gaattaagat 240  
 gatttttttg cttcattacc tcagagacca ggattagggg tgaatattgt acggacatag 300  
 acgctcatga tctttntatc ttaaaagaaa tatctctgcg tgctttgaag ataacaatat 360  
 agactctatg aaaacatttg agctatactc gcn 393

<210> 30251  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30251

agaaggatga ccatgatant cgtacataat attcagctga cacatccctt tgaaatgaaa 60  
 agcaagaccc attattgtct ttatccctaa cccogctgct ggattaacct ggagacacaa 120  
 aaatttatga atattccgac cgatttttga attaaggcca accatgggtga aacccaatgg 180  
 ttaattggga gggaatattt gaccaattta aatatattat cttacccttg gagaacctat 240  
 cattttgagg aagaaaaaat gggtacttca tggattaact tgctcttact ggtgcccaatt 300  
 aattatatta tctaacttaa ttattaagcc aaggatatat acttaatatata gaatgcattt 360  
 cccagtgggt taaatcattt caggtggctg aagaaagcat gaccaaccag ctttaaccgg 420  
 catcttaatc cactttgcac ncagagcccg atttgaagat taatntgaat gggtagaaat 480  
 ataataatn 489

<210> 30252  
 <211> 249

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30252

acactanaga gaagcaatgg cgatattgta cacacacaca ttctctatct agaataaacc 60  
 tanaatgtgc attttcactc tactaactta aaccctatgc aggggaataa aaagtaggtc 120  
 tgatcttata tgccaacacc ggcagtgtac tagaatagat cacatccttc ctcacattgg 180  
 tcttccataa agaaagcggg aacggggaaa agtaaagagg gatatgtgac ggtgctttgt 240  
 ttctgtaaa 249

<210> 30253  
 <211> 395  
 <212> DNA  
 <213> Glycine max  
 <400> 30253

ggcggatgag aaaacattgt ctatattcca tctccaactc cagtaggcct cccaatcatt 60  
 ccttactttt ataggaggaa tggtagggac aataacctca atgccgtttt gtctaggaac 120  
 acacatcatt cctagtctc ttccttcttg attattatga tctctatact caattgaacc 180  
 acctctcatg gagcgcacatca tctcgggtgat cattaacctc tccaaatgta gcatcaaagc 240  
 ttgcatgaaa gattgcgaaa gcccactcc ctcattagga gtaataacctg gcatctcaaa 300  
 caagcatatc aaaccttaca agacaaatat aggaactggg tgaataacctc acccactcga 360  
 gaggatcaca caataatggg ctgtctctaa cgaac 395

<210> 30254  
 <211> 513  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30254

aggaatgact tttctanatg attctgagaa ncatcatnna cgcattctna gactccanac 60  
 actgcgngn atatcaaaga ggaagtttct taccacgtct tngtatatga caatttacia 120  
 gcaaactata gagacagtgc atcagacaac gatataacag cgaatgataa atgcctccat 180  
 catataaatt caaaacacga ggggcatcaa actgtcatca gtaggaaaat gatggatgat 240

atttatgcat taggggcaaa atgtagggga agatgtggat tactcactag gacatcgtaa 300  
 cttgaaagtt accatgggtg aggaaataac ataactgtca gattaaaaaa gggccggtca 360  
 cacacaagga cctcataagc attcacaata gtatgactan attgaaagta attattcagc 420  
 gttaccttca actattttctg ctggtacata agcagcacat tatcattctc aagaagaatc 480  
 actccgatta caaattacaa aacaaatcaa tag 513

<210> 30255  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30255

agctctgctt atttggcttt cgccagcgaa aggatcgaag tggatctgaa aagaggcaaa 60  
 tctaatactc ctgcttagac gaatgagaaa actgnggcaa ataaagaggg tgaggatgag 120  
 ggacaaaccc atgctgtgac tgccattcct atacggccaa gtttcccacc aaacccaaca 180  
 atgtcattac tcagtcaata acaaaccacc tccttaccce ccaccagtt atccacaaag 240  
 gccatcccta aatcaaccac aaagcctgtc taccgcactt ccaatgacga agaccacctt 300  
 tagcacaac cataaaaaac accaaccaag aaatgaattn tgcagcaaaa agcctgtagg 360  
 attcacccca nattccggtg tcatatgcta acttgcctcc atatctactt gat 413

<210> 30256  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30256

actaagctga gctcactggt gtgcccataa agtccacga aatttggtcg gccatgctct 60  
 tccttgcgag cctcttgggt ttcttggtca aaggctcttg cggtagctgc attntcttct 120  
 cgtaaccggg cacactctnt ccgaatgtct gtagcgacca acttgaatgn ttctttggca 180  
 agtcttgcta ttcttagttc tggtttgaga gcttagactt cttcatcctc tttcggagct 240  
 ntgaaattct ctctgttgat aatctttaac ttggagagcc aatctaacc cctgtgtaaga 300  
 actttcagcc attcatgata accaccgatg aagccattac gaatgcccct aagttcttta 360

tctttcctta acgagctttc ccacgcctta tggactcttt gtataacctt gaaactttgc 420  
gcgccgaaat ctctcaca 438

<210> 30257  
<211> 366  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30257

gtgggtacct atnttgaatc tgcgatgctg tctctacata catanaacag tcccaccatc 60  
ccaattgtgc aaaaccatat tcatatatca ttgcggcatt tcaccgagca cttggtgggc 120  
gcacgttttg acataaatcg caagagaatg ggggcaatgt ggcattgcctc attgcttcag 180  
aacacaacat aggcctaagg ccttctcatt caaatcctca actcaagaca tcaagcatac 240  
aaacaaccca caactgcctc accaatgtaa gcatgttctc acaattagag caccagaaga 300  
tgaagaatat actccaatgg gaagcataaa actcaaggat ngaatactta cttgttgag 360  
tgagta 366

<210> 30258  
<211> 492  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30258

aggaggatga tnncttagac tctganncaa attacctact ccaccgagac gctnnaagta 60  
gagctggctc atattcctgt ctnnnctga gcgcacctcg ttggatgaga actagagcta 120  
tctaccaccg gctataatag ctaagctcac ccccatgaca aagaagctga aaatgacaaa 180  
aaaaaaaaag tacgttatac acaataactg agattgcgcc gaattacaag gcgtaaacc 240  
tatacttact aaatggcgca aatacaaggt ctagacgaag gaataaccta tgtaaatatt 300  
tacgaagata agcgggctca tactaagccc atgggctgga aatctaccct aaggctcatg 360  
agaaccctag ggcctttcnc tggatctcta gccagctca cttggagtct tctaaccgat 420  
gctcttgag ggtaggatag catcattccc tccaccttag gaaggatgtg acctaaatcc 480  
cgagttcatg ag 492

<210> 30259  
 <211> 524  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30259

agacgttctg annctgagta gnatncctag ggcgnctact ctgaccnngc catactatcg 60  
 agnngagccg acaggcaggc aggcaaaacta ttttgncttg acnagacccc nnagcttagg 120  
 agagatcagc tctacaaaaa taacaaccga ggagcggaaa gtataaaata ttaaaaaacta 180  
 atataaacga tgatgntaat gtaacaagtg acttcgaata aacatcggag ggaaataata 240  
 ttactgctag gctacatact tatattgtac agagaactac tacaagtaac cttacaaaac 300  
 gtgacaacta tgtagaaacg actaaaaaag attatttatg caacaatgag tacaacttta 360  
 cagagataaa atatagttga aaatataatc gagcttaatc tctctaattg gatagtaaga 420  
 caaatgctca tatgacatct ctatcattta taacgtgcc aatttgagc ctgggttattg 480  
 ctcatatgtg cagtactttt tacagagcat gttcagccac gccn 524

<210> 30260  
 <211> 506  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30260

agagtaatgg ctnatgagac tntcggacac ataatctacg ctagcaagaa ccangcggga 60  
 nggagaatga agaggcgaca aaaatgancg atgtgcncn cgagcccaga agaggtgatt 120  
 gagcctggag accaagacac ctatgaattc ctacaccgat atcaagatgt tgtccggcta 180  
 caccaacgac tatggcatat cagcaaggat gtacatttct tcttagtcat acgcccggcg 240  
 catggatgac ccactaagga cttctgcca aacatgatta tgattctccg cgaatcaact 300  
 tcacgcatgc agcctagccc tccaagcact gagaccagac gaagcccga aggacaacca 360  
 catatcctac tcgcgaggtc tgtgctacca attctttatt gctgcacgag aacgaccact 420  
 cctttccact caatgaacac aaatgaactt ttctctgct accgtctctg agtcagatct 480  
 ataatcactg cacatatcca tttagn 506

<210> 30261  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30261

agctnttctc cctcattctc acattgcttt ntctcccttt ctctccacc attgaagcct 60  
 ccattanagc tccaaacttt gctcaccatt tctgctccaa atcgcaaaag gaagctattn 120  
 tcggagtcgt gaagcgcacc tctacgttgt gggaacttca aatttaggtt tgggtagact 180  
 tcttctcaca taaattntcg tgggtattgg gttttgggag atatgatggg tagttgtact 240  
 aagtttatgc cttaaggtag ttatttgtga aggaatttgt tgaaagcatg ctaaaattat 300  
 catgtttgat gtgagctaaa tataccatt ctgttttaag gttntataat gatactttgt 360  
 gatgcttggt tgctgaaatc gttggtagaa aattgataga gatggagggt agagt 415

<210> 30262  
 <211> 210  
 <212> DNA  
 <213> Glycine max

<400> 30262

cttttgagct agaatgtgat gcctctggag tggaattgga gctgtttgtt acaagctggc 60  
 accctattgt tatattattga aaacttatat tgcaccctaa ctaccccta tgataagagc 120  
 ttatgcctta taagagccct ccaacttggg acataccttg ttccaggaat tgcattctag 180  
 tgacatcatc acttagtcat tgatagcaag 210

<210> 30263  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<400> 30263

tctgctgcc aacatacaacc tttgcccttg catgcaacta cctggagcaa gtgagcagcc 60  
 tgaggcttat gctgcgaata tatacaatag acgctgctca agccgcagca gcagaatcta 120  
 ccacagcaga acagttgtga cctctgcagc aacagatata gccctgcatg gaggaatcac 180

gctaacctca tatggtccag cccttagcaa caacgacaac agcctgctcc ttacttccaa 240  
aatgctgctg gcccagacat accatacatt cctccaccaa tccaacaaca gcagcaaccc 300  
cagaaacaac caacag 316

<210> 30264  
<211> 379  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30264

tatggtgttc aaggtggatg ntgaaaaagc ctatgactca ctctcatggg ttnttttgga 60  
ttatatgctg canagaatgg gtnttttgcca cacatggaga cactggatgt ctgcctgtct 120  
caagtcagca agcattgcta ttcttatcaa tggcagtcct acaaaggaat ttgctcctac 180  
tanaggtttg aggcaagggtg atcctttagc ccccttactc tctaatatag ttggagaagg 240  
catcacatga ttgatgaagg aagcagtcaa aagaacttat atagaagcta tatggctgga 300  
aagaaaaacg aaccatttaa tatcttgagc tatgcggtatg acagcaattt tgtgggtgag 360  
gctgagtggg agaattgta 379

<210> 30265  
<211> 173  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30265

gacctggact ggaaacgatt atcatgtact acagcatgat gatggaaagg atgacatcta 60  
ttcgcttatt atcactgagt gaggcataga gaccacacgt ttatggctac agaagatgtc 120  
ctaataaatt atccacgtct gccatcatca agtactgttg taatgatcag aan 173

<210> 30266  
<211> 275  
<212> DNA  
<213> Glycine max

<400> 30266

ttgaaaccac tttctcactg cgttgaactt cctaattaaa tgaaataatt tccctataat 60

taccatggac aaattccaat tgtaaagatc caattcttat ttacctaaaa tgattaatga 120  
 ttcactaaga catcatcttc tcgctgcttt tgacaatgag tatgggtgaa cgaagccgta 180  
 cactaatcca atacacattt aaaatacagt atctacgaag tgatcctacg ttgtctccaa 240  
 cgagcaatgt caaccaaag ttcataacac atagt 275

<210> 30267  
 <211> 478  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30267

aggaatacta nntc gattn tctc acanan tate nnanat aaggcatccn nggccggnc 60  
 tangaggaat cngagacat catntattnt tcnnngaanc ccanncactg gaggggaccg 120  
 aacgcaggaa tcaaaccgac cgtgataaca tggaatccgc atattttatt gtacaatgaa 180  
 atatggaacc cacctctggg tttcatattg gtgacccatg cctcataaca tatgagccat 240  
 cagtttagta agttgaaaat attgggcaag atgtgttgtt gtgttgagcc acgtgatgtg 300  
 aacaactgaa tgtataccat aatgattaat gcatggctat ggagtttaat tttatattgg 360  
 actaatattt tatgggacat actactgata aaatgtgac tagacatcat tgatcatgca 420  
 agatcctaac ctttaacaca gtttggaag attaagtatt tgctctatac aagatctg 478

<210> 30268  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30268

agcttcatac tttctaatta atagcttcca aattttcatt ttgaagctat ctcagagtt 60  
 atggctcttg catgtctccc atgttttgta ttcttccttt atatctttag taatatatag 120  
 acttgtagca taagatcatt acgaataggg tcaactaatat agttgggatg ctttttcccta 180  
 attaatgtga tatattactc ttatactatt ttctacaaga ttctttctaa aagctatcat 240  
 tttctattca tggctagaag acatggtttt atgatggtga tttggtgacg atnttataat 300  
 aatcaacatc attaaggagg caatgacatt tttgtaaata ccagtcatat ttcaacgact 360



gtgttccata aaacgatgta gaaattgca

389

<210> 30269  
<211> 250  
<212> DNA  
<213> Glycine max

<400> 30269

tgttagcattg ggtatctttt gtgatcgaca gcaccaccaa gaacacaaat agtgtcgaca 60  
tgaaaaaac aggttgtgat ggtagaattt cttcttcttt gcaaacaaaa ccactatcat 120  
agatcctctt cttattgacc agggtgagta ttttttttag tacgttcctt cctgctcttc 180  
tgggttcatt tacctattta cattggatga gttttttatt cgggttttagt tatcactgca 240  
tgttcattgc 250

<210> 30270  
<211> 451  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30270

cggggaaggg gtnnnnttnn nnnnnnacct tgctagtcag gcataccgga gtanctgagg 60  
gagcaacctg tattgtttgn gttatttgcc gcaagaaacc tgccattttt cttatctttc 120  
ttcagggccc tatggtttgg cactccggcg cttacaatat gggatggttg ttccgacctt 180  
tggettaccg attcgcaaaa ttggaggatt ggtagtggc tcgttttctt cacccttcgc 240  
aaggatattt tggccaccag tttctattct tctaattgta actgtgaata gtggtatgat 300  
catgtggagg cctcttattt ctaattccaa actttggatt tttttttaac ctctagtttc 360  
attgccccct aactggccgc tataccattt tcctcgacct ttttgtttaa gtgaagggtc 420  
ttatggccca ttttctgcgg ttgatcccc t 451

<210> 30271  
<211> 239  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30271

gtacaaaaaa aatcctgcac atattttcac ccttcactct ataaatacat gaaatcgatt 60  
 attctgacaa aatatatgcg tccgcgtggt cggtcgacaa actgtntgat ctgcagaact 120  
 gcataccatt tgatatcatg tttgctcatc cttgcgtggt cctctacaaa aaaaaaaca 180  
 aaaaggggga agcgtgaaac ttcatactac attcttagtt tcatgtgtta cgcaccacg 239

<210> 30272  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30272

agcttgttca tagagatcta ggaagaacgc cgcgcccgca gggactagtg ccgctcccga 60  
 gttcgatagc catcgtttca ggagcgctga gcaccagcag catttcaaag ccatcaaggg 120  
 atggctccttc caccgagaga gacgcgtcca gctcatggac gacgagtaca cagaatttca 180  
 ggaggagata gctcgtcngc gttggatggt gctggtcatg cccatgggtca agtttgatcc 240  
 cgatatagtt ctcgagtntt acgccaatgc ttggcctaca gaggagggcg tacgggacct 300  
 ccggtcatgg gtaagggggc agtggattcc ttctgatgca gacgccctca gtgtgacatc 360  
 ctgaaaattt ctacctgaaa ttnttgaaac gatgtatttt gaatgattat atatatataa 420  
 gta 423

<210> 30273  
 <211> 447  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30273

agactctgca ggtagatttt agccttagtt tcactttagt ttgtagtcaa tncaattaag 60  
 aaagagaaat gccaaagaga aacgtccgat tgattttttt tgctttattt tactaaaagg 120  
 tattttttga ttatgatatt attattatac ctcttttttg atttccaacg tggttacagc 180  
 acgaccgaac ggtcggattt cattataaca gaaattaacg gatattacag atcaaattgat 240  
 ccgtgaaaat ttattttatt ttttgattag gcgagagatg acttaaataa atgactgaaa 300  
 cacgtcaaaa gaggggtacgg gaagtaaattg atacaagata ttaaagtaca cgaatcagat 360

ggagaccacc acgaatacat aaaatgaatt gaagagctca gtttgggtac ttaccggttg 420  
ataaccgatg aaaaacgaag aacgaac 447

<210> 30274  
<211> 448  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30274

gccatgcaag cttgacttct acactcaaac atggcaaggt tcaacacact ggtcagacaa 60  
atctttcttca ccaaataacc ctatcacaaa gcataanacc annataaaaac ctacccatca 120  
tatnntctcc aaagccccat acccācgaaa aatgtaggtg agaaagaagt ctacccaaac 180  
ctgagatttc gaggtccac acgtagagat gcgcttcacg attccgaaaa tgccttcctt 240  
tcgcgaattg gagcaaaaat ggtgaccaa gggtggagct ttaatggaga ggaagaagaa 300  
agaagaagca acgtgaggga gagggagaaa gcttctgaaa ttntctgttg agtgaggaga 360  
gagagaaaac agctnttttg tttaaagagg atnntctctt ttctattatt ntattntaag 420  
ctatgccaca tgtctccatt tgagtgga 448

<210> 30275  
<211> 434  
<212> DNA  
<213> Glycine max

<400> 30275

atgaagagtc caaagcaata cacatatatta acaaatacaa aggtgaatgt tttttaacac 60  
atgcacgcaa acgaacataa aggccaaaac gaacacatgc atgcaaacat acataaaggc 120  
caaaacgaac cacatacaaa cgggtaaaaa aaaagaacaa aatagaaaca attgtaggca 180  
tcaaaactga tgcaatccta ccccgcaagg gcattggata gaaaactcca agtagattga 240  
gccagagatg caagagaagg ccctagggtt ctatgagcc ttaaggtaga tttcggggccc 300  
atgggctaag tacgagccca cttatctatg taaatattag attaaggttt cattattctt 360  
gggccttgta ttttaaggctc cataatagag gtagaggacc ctagaaatat aagagttttc 420  
agcccttgta tttta 434

<210> 30276  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30276

atcttgagtt gatgaagtgt tgaaggggtga aacttcctgc ntttattggt gaccacagag 60  
 tggtagctgn agatatgtnc gcggggtcat gagaccttgn ggacgtcang tgggggtgcta 120  
 tttgccccaa ccaaacttga ccaatcccga cccacccgg gtgtcgcaac ctacccttcg 180  
 gcgggagggc gacgcgtgac ttgctgggatg cgtgttccac ggaaggaata cgcgcgaggt 240  
 cgccaccaac gtttatttga ggaaaacgtc ggaaaaaccg gaaaagacgc gatctacgaa 300  
 ctttttagtg aaaggttcgg gagttgtatt ta 332

<210> 30277  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30277

agtcattggc gagtengact ntctgcgaca catttttact caagctgata cccgcagaga 60  
 caacgtcgtg tttacgccc atcaatcgn gcgacaaccc gnaacgcgcg ggatttcgta 120  
 atctccgcct ctcaagatct gtatatggac tttgagcacg cagatggcgg ataacgcgag 180  
 tggtagctgt ataacttttg ctatctgtaa aacaaaacgc tgtagcacgc aaagacaacg 240  
 gcggctttgc gccttcgcaa tgcgggtcgaa agcccgtgac accagagata tacatatctt 300  
 tcgcgtccca agaactgaca tctgactttt ggtagcgcta ccggccgaat acccaagggg 360  
 atccgataaa cttgtgctgt ttagacgat agctggtaca cccaagacta cgtngggttg 420  
 cgccttatca tggcgggcgac caccgggtgc ctgggg 456

<210> 30278  
 <211> 500  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30278

cgccccgcan nncnaaggat gttgaaagct anagaagctn cgcaattatt cattgncccc 60  
 cgattctctg agccgactgg cgcgtggcca gattttttct taattaatnn ccaatattta 120  
 tgatggtgta ataataataa attttaagac catcctatta atatttatcc ggtggtnttt 180  
 tatattaata tatttaagaa taaaatatta ttttgatat tccatattca ccggatcgga 240  
 ataattgggt tttttatata aaaatccatc tcttaggcct attttaaatt ttcattaacc 300  
 ggaattntta tttattgaaa tacctaaaat taatttaggg caacctaccg gcgcgtggat 360  
 ttaatattat tatcaatcct attatatata aatggagtga ttccgaaggg acatgtataa 420  
 aactgaaagg ctagtattgt gcaaaccagc gcagaaaaag gatcgtgaat atggtacaaa 480  
 tattttgaga gaaacacaan 500

<210> 30279  
 <211> 440  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30279

ctatgaatat attaagagga attgtatata attctggcga tnagaagttc tcccacccta 60  
 caaaaacaat tntcatattc aaacagaatg ggtaaattat aaaaatgctc agattagctt 120  
 caactatgca gacaaaaaaaa aaaatagaag agtaagttcc tttaactgtt aaaatatagg 180  
 acttggtgca natttaata tcatgcaaaa aaagaagtgc agagtgcggg gaaaaaaca 240  
 agatgtgatt ctgctttcaa ttgagaaatt gtatttagtt cccattaata aaatactact 300  
 ggttcaaaaa actaagatta gaacagtgtc tgcttcttag ttcttacagg aggaatctga 360  
 actacattaa gttatagact agagtcattt cagatcatcc ctttttcaac tacctcatag 420  
 tccttcagct tcttgtctag 440

<210> 30280  
 <211> 381  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30280

ctctatncct ccatcatcct attcactaag aggtagatga tctctattgg gcatttgtgt 60

aaaaaagctt accctaactt tgctttttaa tgtaaacttt gcattatttg atgaatcagt 120  
 ttatagagat agaaataata atgcgttgaa tatgtaattt ttactatcat cgaatcagat 180  
 cacanatagt gtgtatgata aacttggttaa atttatacat ctaccttaaa gttaagatat 240  
 tatttcaaga ataatacaat gatataagag ttaattgcga caaatgagat ataaacttct 300  
 taacacgtta gaataggact actactcaag tataccaata acattctgga tagttgataa 360  
 tataaacttt accgctatac c 381

<210> 30281  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30281

actacaaggt taatcaatta cccacctaaa aactacaact attgaattaa ttatctactt 60  
 cgctgtcatg ggcttaactc gtggacaagt aaggaaattg gagtaaccag agaacaatcg 120  
 agaaactcan gcaaattgtg cctaccacat acaccagtac atcgaagtac ttactttaag 180  
 ttaattaacg taaacaaact ctgctgtttc tcaattctaa cccaacaacc ataccaata 240  
 aagagaacaa ctgctggatt agctattttc attaattctta ttctatatat tattgcgaag 300  
 ctatctgata tatatcctgg acgaagagta ttccaagnct tttgagggtc tatataattt 360  
 tttttaaatt 369

<210> 30282  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30282

ctgctgcttt ctcangettga gtatctaaat atactaagga gaagatccaa aacatcaaag 60  
 atgtacaata gaaggaacga ataacaactt attttaaact catctatggt gacctatggg 120  
 acatggtgga aaatggaaat tacattccat ataacgatca gttaaacaaa attcctaaaa 180  
 gtcaatggac aaaggagcaa tctgattttc tcaactcaga gactccaaat gtgatgctat 240  
 atgctctatc agaagatgag tacaccaagg tacacaactn taaaagtgtc aaacaaatgt 300

gggacactct agctgtaacg tatgaaggaa cgtgacgggt aaagaagaac aaactaagtc 360  
tgctcactca taagtatgaa atcttctcta tggaa 395

<210> 30283  
<211> 438  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30283

cgccacggaa aaaaaggaag ggagaatddd cangtananc acataannaa agcnggacac 60  
gagatccttg gaggggacct gccgcatgct tctttgtacc tctntngcac tgcacactga 120  
ctattcactt ttacttatgt tcatcaatca ccctaacaca ttagctatga gaataattta 180  
tcaagaaacc ttttcatgtg gccatttcta atagatcgag gactcttgag tacatgtgaa 240  
ggctgctata cagaagtggg acaattcaat tatagtatca ttttactacc ttacactcta 300  
agtgcgacag atactctgtc catagtgact ttcattctct cataagatgc aaagagtgat 360  
atgtaccgtt acaaaggcat ctgttatgct tggatagcta ctgcacagtg gtattggctc 420  
tataacctaa agctctgg 438

<210> 30284  
<211> 456  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30284

aatcattcaa cgcattcaga atatgtgttc atccttanta aagctactct aaaataaatg 60  
acacagtcgn cagcanagag taagtatcag atgatagggtg caccctata gatnttaatg 120  
ccataagtat gtccttgccc ctccaacttc ttaataagag cttanatccc ttcagaacaa 180  
aggatgaaca aaaaatgaga gatgggatct cctagtctga gacctttccc ctggataata 240  
ggaccaacca agctttcatt gataataaca gagtagacag attggatgag aattaaaatc 300  
cacttaaccc aagtcgcact aaatctcatt ttggccatga cgttttttaa ataattccca 360  
tcgacttggc catagccttt gttgatatcc atcttcagcg caacttgtaa cctcccat 420  
gttacccttg accttacact gcatatgatg gagaat 456

<210> 30285  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30285

agctatgtgt ggttcttcaa tggatgaatga gggaggaaga aaagcaacgt gagggagagg 60  
 gagagagagc ttctgaaaat gtggggctga gtgaggagag agaggggtgc tttttggttt 120  
 aaataaaagg gttntctctt tttctattat tntatttaag caatgccaca tgtctccatt 180  
 tgagtggagc aagaagggcc cactttctct ttttgactgt gacccatatt cagtcacaaa 240  
 agtgagaaaa atctgacctt tgaaacgcta aaatcctgcc tcggtttgcg tgccgtttct 300  
 ttgattccag tttctcgcgt ttctctgcgt ccgccggggc cagttttcga aagcaagcaa 360  
 tatatatatc anaacgctca gaatanaacc ccgaacgtgg ttcagagggtt ggtttcgtta 420  
 a 421

<210> 30286  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30286

aggagtttat tctgcattcg gcannnctat ttatcngncg aactcagagg ggnnngcaag 60  
 catgcaagca agcagtgata tttcnnnncc ccgcnnnagg aggggggttg tactatcatt 120  
 ccctaaaaac atcaacatat caacgttact ctttatattac atcatgactg ctgacgaagt 180  
 ttttagctgc actctgagat attggtgacc tctactgctag agtgacgacc tgtcttatgc 240  
 tctccaggct attcaaaatt tgcttgtctt tcttgcgacg tacttggtta tttcttccat 300  
 caatgactca tgcctgaag tgtacatagg aatataacgt gttatgaact ctatttattt 360  
 gaaatttacc ttataaaccg actaaggtaa caccttgcg atgaaccctc cttaagagtt 420  
 cag 423

<210> 30287  
 <211> 337  
 <212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 30287

aggagattta tctgactcan ncctatnttc gacaacaacc gncgggggag gaggatttta 60  
ttttnnnnnnn caaagggggg gtattacatc accaaacacc agcangacac aacatgggca 120  
atccccaatg acattgtggt ggcaacacta caagtaatat actttaatga cttgagattc 180  
ttactgtaga gatctgattc aatacaatgt agacctttcg caacagacca tacttgacta 240  
ccatatcaaa aacatcaatt tctcaccaat taccaacttt aactggatta cgacttacat 300  
gaagtacccc acatgcctgt cctttacaac agtcctc 337

<210> 30288

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30288

ggacctgcag gcaggcaagc ttgatttctt ttctcacata ctggaatcga ttaccagaga 60  
agtgtttcag aaatattctc acagtccatc ttttacttga ttctgatggc tgcaaagcct 120  
atattatggg aactggacac aaantgccaa gagtctttca aaaccaaag gtattatcct 180  
ctaaaaagca catcgtttta tctcttaac aaattccttg gccaaattac ttgtgattca 240  
ataaggaatt atttgagtgc tcaaattgtg caatctatct ctttcaagag agatttcttc 300  
ttttcttctt cttcattctg aaaaaaggga ttaagagacc gacggtctct tgttgtgaaa 360  
gaattctaaa cacaaaggaa gggttgctct tgtgtgtcta gaacttgta 409

<210> 30289

<211> 512

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30289

aggttggctc cgctgagant ctaccanact actcnaanct angacactcg nngagagggn 60  
cttacagggtg agagaggagc aaataatn tctaancnc cccgaaacaa cggcgccctt 120  
ggcagatgat cgcacacgcg aggccaggaa ccccgagatg atccgctaac actcttgctc 180

gtgagagcag aaatgacaac cagtgggtgga caagaangtg agattccttt gtggagccgg 240  
cgaactgcat gatgaccgtg agattatttg ggagagagtg tgttttgtaa tcaactgctg 300  
cctagcaggt ccggaattct ttttggtgat ttggagactg aaatcacata tttaatcata 360  
tgtgtgaaca aagttattcg tcattatgtg aatgatgtgg actacngac tatatatata 420  
tgtatatata tctcgtatgt gtgtatgggt ggattccctc aagcataggt gcactgtcct 480  
ggggatgtat atcggtaaaa cgattcgttc at 512

<210> 30290  
<211> 349  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30290

tccttcctta acctttctag ctgtgcattg gtgtattttg atctcctttt ggtcctctaa 60  
ttgtggaatg tgttcaatat gtgggcaatt tttgggttgt ttccttgctt gattgggtta 120  
gaaattgggg gggtttgtat ggagatgggc cctangeect ataatgcatt ttttgaagca 180  
atgagacatg ccacatttgt ccccggttctc ttgctattga tgcctaaaca cgcgccacc 240  
aagtgttcng tgaaatgcc ccatggcatt agcgcgtggt ttttgatgga aacaacccat 300  
ggagcatttt ggtttgaca tatnttccat tttttgggac atgcattca 349

<210> 30291  
<211> 366  
<212> DNA  
<213> Glycine max  
<400> 30291

acctttgtca atgatattct tcatgcctct taagtgcaga agtccaaatc tttgatgcca 60  
tattttgact tcatctttct ttgcagggtg gacatgtgga ggagtaactg gttctttgag 120  
gtgtccataa gtagcagttg tcccttgatc tgcgtgccct cataaaaaact cattcttctc 180  
attggcacca agcattctga ctttgtgaag tttacattga atccttcac acccaactga 240  
ctgatgctga tcatagttgc agtcagtccc ttcaccagca gtactttgtt cagactagga 300  
agccatcatg gactagcttt cccattccag agatctgtcc tttagagcca tctccaaatg 360

<210> 30292  
 <211> 501  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30292

aaggagttca tcttcttgca tnacgacann nctattncta tcnngcgcaca catncacang 60  
 gnngacctgc atgcgtgcaa gctttcgttc ttctntnnnc actgctgcga gaaaggggggt 120  
 tatttatcca agtgagatta caagccccta acaactgtgc ttgacaacac gcctaagtcc 180  
 gacacagatc aggtgcttga cgatgtgtat ctgatagaga acggcacagg ttttttcaca 240  
 cggatgttga acttaaactct gtttacacaa acatcctatt tatgactata gaaagtgaac 300  
 aacctgcctt gattagctgc ctgctctccg accaccgata tgaagtagat tgcgcttact 360  
 gtgcttctcg tacctgcaca ccgccacact tctagttaag acaactctcg tgcgggaaac 420  
 tngatgcttg taaaagtcta ccatatcagc ttaaaaagga gaactacttt gcattgcaga 480  
 tgggtctaacc atctatcacc c 501

<210> 30293  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30293

agcttctatt actntattga cacacaaaat acctaatttg aatgaagcat ttgatattatt 60  
 tcttangatg tagtcttaag atgcgaggat gaaatctaaa attagggttaa taaaatttgg 120  
 tcactttttg aaataatatt gattgaagat atggatgaaa ttgaatattt aatattaaaa 180  
 aatttgagta atttaaaaaa cttatataat tcttttataa ttataataaa agtgggtaca 240  
 taagtaaatt attcttatga tgatcaaag aatcctataa gtatatgtaa aacctacaaa 300  
 aattattctt tccacaattt acccatgcat tgcgcggaaa aaattgacca tagttttttt 360  
 ttttaactta aaaaattgac catagctgan atgtaatcta gtttcgctta ta 412

<210> 30294

<211> 259  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30294  
  
 ggagatcagt ttatcnanct tttcggcacg cggcgggggg gagctttttt cacacgcagg 60  
 ggttgtagat accccccctg cacactcctg tgcggctata gcgtggacaa ccaggtttaa 120  
 taagttatct acaaggcgca tcttgaaggg caatatgatg aagaaagggg taactgtaga 180  
 attataaaaa ttatatatta tctaaggaaa aaagattgtg aaagaccagg gggcctggta 240  
 atcaagcaaa aacgacgac 259

<210> 30295  
 <211> 388  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30295  
  
 agatcgtgac gttcttgcn ncntatnnat gnnccacnt ctgagcgccg gggagggctt 60  
 tttcattttt tncnacncag ctgggggtgc gcagctggag aaaagaacca acaagaaaca 120  
 gcccatgatg cgggggtggtc tttactgcag agtggggaac aagaaaaacg tttgactgcc 180  
 tttggaagca ataactcacc ccattccatg actttcttta agtggagttg ccgcgcgag 240  
 gtgggtgaag cctcgagagc agaagcacca agaggaagag agaacaccgc acgacctcta 300  
 gaattggata aaacaatcta cagggtgcta aagacgctac atgggcttca aacatctgct 360  
 tccgattaaa tgggtgcatt actctcgc 388

<210> 30296  
 <211> 372  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30296  
  
 agcatatfff tcattaaaat agataaaata ctatgttcag atatacatgt ctacttgtga 60  
 agagatagct agctatcaca tttagctatg gtgatcagct tcataaagag tccttctaaa 120  
 cccaatcaaa gcaacaacaa agtaacaaat ntacagaata gatcaagtga aaacacttga 180

agcttaaaat cagtaatcaa tatgattgga tagaactata gtcttatcta aatcacangg 240  
 caaaccacaa cttgcaatan aggcaaagta actaaatagt gactactata gataacacta 300  
 atcaatttcc aaagtgcata caaaatatat ccaaattgtgt gaataataat agtcatgata 360  
 atgaacaata tg 372

<210> 30297  
 <211> 451  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30297

atccaagctc atcttggagg agaagctccc tcaaattggc ttattcccta gnggaagaca 60  
 cctgcggtca cctattctcc tttgtcttcc gctgcatctc catggtggaa aatcaccatt 120  
 aaaggaccta attgaagctc aaagatccag tctccataga agccacacaa gcaagcttcc 180  
 atcanaatta gacctacgta gttctttcat aagaacagaa cgttgggttaa gttgttttga 240  
 tatttttccg caagatcgat tagaaccgaa caaaagtcgt ttaagggtgtt gaggctttaa 300  
 acgatctttt tgattttgaa aggagggggag cactgtttaa gcgctggacc tttaacgata 360  
 tcttggtttt gagaggagag aaatgttaag gcgttggtac tttaacgatc tcatggagtc 420  
 gacaaaagcg gagctttggc tctacatat c 451

<210> 30298  
 <211> 503  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30298

aggcatacga tcangctntc gnananacac agaatnaaat ccncggnncc cgagactccg 60  
 nnggagngga cctgcacgca tgcttgttta tttcttncna accaancggn gcgggatata 120  
 gtgtggagtg tatagacttc acagcataaa naataatcag tctatgttct ctcatatatt 180  
 accgcatatg gagatgagct atatctcgtt cacataagac tggacaatac cgctgtccat 240  
 agatatgtat tatgattaca aactcgctta ctgaaacctc tctcgcgaaa tgagtctcta 300  
 cattgattaa ccatctacat aatggaaata gaatggagag atgtctagaa atcagtgcac 360

catgccgcct atacactcgg agatcttatt cgatggctta ccctactata cctcgcacag 420  
acagagtatg gtccttatct ctgcgggacc acttcatcaa aatgtcaagg agctccagat 480  
actcatcata cattcactca cgc 503

<210> 30299  
<211> 398  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30299

aggtttctgc ttgannccan anataacccc gagccnncga aggtagagag ctctagtgtt 60  
tnccaaaacn gagagacgag ngtgaaacaa acacaccccc caaccaggcn gcaccacaaa 120  
ggaagagaga aacgccagcg gagaccgaac gcgagatgga aggatcagag gacgttcacc 180  
aagcgggctg gatttgaatc attcctgagg aagaagatga agctcttacg aactgtgtgg 240  
ggtgatacta catatcagta tgacaaatca gatcggcata ggatacgcca catggaggaa 300  
agctcatcca ctggaagaaa ttcgtcaaag aagcaagctg gatgtagctg tcccacaatg 360  
aagctggagg gcgtggcttg gggatcaa at caagcaag 398

<210> 30300  
<211> 415  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30300

ctatcttact ttttcttgta tcgtgactct tcgttgccat catagagagc ggngcagaga 60  
gaagaaacac tctctggcct ctcatcttca agcttcgatg gagatgagcg ttgcaaggct 120  
aaagaaggac gagatccana ggctgaagaa agagatcaat tagctccgac gtccggcgac 180  
agagctgcat gactcagaga caagcgcgac gctgaagaac ctctcgaag agggagaaag 240  
aatggtgaca ttcctagaga cgagcgcgcc agcaccacca tcaccatcgc tgatgttatt 300  
caaaccctaa cccttctcac cctcaccctc aaccggtnt gctcgtcttt tctgtggga 360  
ccgccttcaa cgacgtcgtc gaggagctca agaantcac caccgcgcat gctca 415

<210> 30301  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30301

ctaataaattc tatgtatgat ntanaacaag cctcacgtca gagttatctt tagtttcatt 60  
 ggaatatcttc cttcttttgg ttttgaggaa acccacatgg atcaatgcat attaccacaa 120  
 ggtcagtggg agtaaaatat gttttcttgt tttatatgta gatgatattt tacttgcaac 180  
 caatgatcaa tgtttgctac atgaggtgaa acaatttctc ttttagaatt ttgacatgaa 240  
 agaatttggg tgatgcatct tatgtcatca gcatttaaga ttcatagaga tagacctcga 300  
 aggatttttag gtctatcata ggaaacctat attaccaaatt tttatagtga ttttgatga 360  
 taattgtcac caagtgttgc tcccatcgag aagggtgata gatttaatt 408

<210> 30302  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30302

ttgcacctga tggctctgtg ttttcaccaa ctttaattcta gggtgacaag ttacatcctt 60  
 gttgattcga tgggtgcgac tcagttcaga ttgtcacaat tggcttacga gatttgaaac 120  
 acagggttaga atatctcaaa ttcataanaa tgggtttatg gggttttcgag attatgacta 180  
 gaacatgaaa atagattaga aagaaaagggt tccatttttc ctctttctaa gttgaaatnt 240  
 agtgctgcta cctttaccct tttcccaatt acccttgaat taccatttc aaccggattt 300  
 caaactcgtt ctgtttatct tctctagtta cataaccatt gctgacaatt gtgtagtgaa 360  
 gtattaattt tg 372

<210> 30303  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30303

gtgagttttt tctttttgat tgcacacnat natgttttcgc gcaacanncc nnnaccggag 60  
 gatgcaacaa ggtgctacat tctnaacncc cggaccnngg ggnncggaaa gaggggaaac 120  
 accccggggag aaaacgnncc cccccaccn ngaaaggacg acaggggagc acgccaggca 180  
 gctgccggac cgcgagaagg gggcacnacc acgccacccc cccgaaggga agcggacagc 240  
 gaacgagaaac ccaccaaagc agaccaagcg gccgagacgc ancaaaaaca accaaaacac 300  
 aaaaaccgca aacgcanagg agactgggca gccangcacg acaggcacgc aagcaagcgc 360  
 cgaagagggg cacagggccg ccccgaccaa cccaagcga accaccaag accggaagaa 420  
 agcccaagaa cccaccgcg aacgc 445

<210> 30304  
 <211> 464  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30304

aggatttctt gcctangatn ctnannantc aagacccgcg agcgntaaga ggccggatgc 60  
 tgcaagcang attgtgatat caaaaganac aaccggcgcc gcggttgat cttataagag 120  
 gcaagcatct atccttcaaa cctgtgctca ccataatcga taacctacaa ctctgcgac 180  
 aaacttgatg aatgcttga tcatccacct ttctaaaaaa tgcattgctc aaccactgtc 240  
 atttcccaag aaaagtgtta tgttcaaaaa cccgtgcata taatcgcttc atcctctact 300  
 gcctatgcga aagcttaaaa gaactaacca cctgaatcct ttgtggctct ctcacccttg 360  
 ccgaagaaga gcgacaaccg cctgatgctt tgtgactctc tctacaaaag atcgaagact 420  
 actgctgaga tcttagaaca tctacccta aacaagacca aggg 464

<210> 30305  
 <211> 566  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30305

ngggatctta cccggaattc gacgnacnna tncatanca ncnaaanaat tttctncncc 60  
 gngngagtag ccctcgaggt ggagncngcg ctggatagca tngcatgcaa ttggatgant 120



tttnnnnaag ganagaacct cccggctgtg tattgtgtaa ccacacaagt ggataccctg 180  
 nnagatattg tccccggggg gtcaaggaaa acccttgngg acgatcaagt tgtggcgcta 240  
 tttgccnat acccagcctg accaatccca accaaccg gcataatcag tcatttgaga 300  
 acctgtaatg tacctaagca ggcgatgctc tggcagtcaa cagatggaaa ggaaaacaaa 360  
 aaccacaaaa ctatgggagg cttgttggtg ggctggccca actgtgaatt ctctggaatt 420  
 atagtggatg gtagccctct ggtaatcnat tacctaaggg ctgggtaatc gattacaaag 480  
 cctaaaaatg aaaacaggag gctatgattg tctctggaat ccaataccac ggggtgatct 540  
 attaccaggc ttggaaacaa gtcacn 566

<210> 30306  
 <211> 490  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30306

cggaattttt agttcttagt atcttgcacc nctnatnaca cagcagcctc tcgaagcgag 60  
 agcnnaggag agaaccaca taatgggtcca atcccnccca naccaccggg agaaattgaa 120  
 attccaattt ttaaaccctg tatccgatta cacaattgtg gtaatcgatt accagcagtt 180  
 agtaaacggt ttattccaaa tttaaaaagc tgaattcgat tacacaatgg ctgtaatcga 240  
 ttaccagacg ggatttcaga aaaatagttg caagagtcgc aactttataa atgctttaca 300  
 tctgaccacc atgggctatt tatatgtgac ttaacctgaa attgctcaga gattttcagc 360  
 caacagagtg ttatcctctc aaaagcaatt tcatttatcc tcttaagata tcttagcaat 420  
 tcaatgcatt cttaaggatt aattgagtgc tcatctgtaa atccatctcc tcaagaagat 480  
 ttgttctttg 490

<210> 30307  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30307

agcncatagc tctctcttca cggaatgccca ttatggagtg atcaatggat attcttcttt 60

caagtgcattg atacaaagat atggagttcc aagtgggaaa tataagttgg ttcccatagg 120  
aactagagag gttgctaacc aaataggacc caacacaact attgtaccta aatctacatt 180  
ctatacattg ttgtaggatga acctatcaac agataaacia ctatgggtatc ttgataacgg 240  
ttgctcaagg catatgatag gagacaagtc aaagtttatg tctctaaacg ctaaagaatg 300  
aggatgtgta atctatgggtg ataacaacia acggagaatt cttgggtgtag gtaatattgg 360  
taattcccta actatctcca tagagaatgt cttatacgtg gaaaggctga aaca 414

<210> 30308  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30308

actttattat gctgctcctn ngctnntaat ccactgctta atatccaaaa taaacttgca 60  
acctttgact tagacttgag aaagaaatcc aacacattct ggtgaaatca tctacaaaga 120  
taatgtaata tttactctct ctaagtgaag tggtcctttg aggtccgcca aattttgtgtg 180  
aatgaactgc agctttctcta ttgctctcca agttgattgt ttgaagagta atcttggttg 240  
cttgccatat taacatgttt cacagtttgg taattcagaa tctaaatgag gtaatccatg 300  
aaccaactcc tttcattgca tgtccaacat aactgcatga tgataatggc ctaatctttt 360  
gcgccagact tctataatat ttatagtaac tgg 393

<210> 30309  
<211> 276  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30309

acccatggcg gagcgaggca gagcgtcgat tccttcttgn cagngnnaga agaaaagatg 60  
gagtagcaaa ctaaccctag cgcagagaag agatattctt cttecgggta atatgtgcag 120  
tggcgagctg gccgaagata cctgacctgc gttcgaaaat caacccccctt ggaaatccca 180  
aactagtgt ggtacctgtg ctcgacgatt ggggtgtcaa ggggaagtac cttecggcgag 240  
cagacttcga cgcattcttc gtgaccttcg caaacg 276

<210> 30310  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30310

agcttangtg atcataattg cctcaatcat ttccaaagtg catgtgaatt anggagcatc 60  
 aacaagaatc aagccaaggc tattgtgcaa gcaatcaatg nggaaaaaca caccacatga 120  
 ttatgatgat ggatggctca aattctcaca atggtaaact catcactttc aaattgagct 180  
 ttcaaaacta tcatgacatg tagaggagaa tcaaggattt caagtcacaa aatgtcaaga 240  
 acttttatta tcaaaacaat taccattttg ttgaacatat cctataattc atagaaaaac 300  
 atgcaaagtc gtacatgcac acaaaattga ccataatat taaactagaa atccgacgaa 360  
 actaacaaca ttaacaaatt aacacaacta acaaattaac aaaccaacaa tactagcaaa 420  
 ccaaagaca 429

<210> 30311  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30311

ttgagacaaa tgtggaatgn tgagcactnc aagatagatt ccggctatct ccatggggca 60  
 agagggtaat gaaagaactt ccaatgacta ctcataacat ataatgatct gcctcgctgc 120  
 tacgatatca ctactctaaa atgagaaatt tcaattttta gtgaaagttg tattaatttg 180  
 attatgaaaa tgggtgagaat atttttgcga tatacattca tcaagtaatg catagattca 240  
 cacacgcaca cgcacacacg cacgcacaca cacacacaca gacacacaca cacacgcaca 300  
 cagacatata tatattaaac cactatacat cattcacatg acaagatata attcagtgtt 360  
 cacatgtatc taaacttgta attgcatgcc cactcaacat cagtgaccaa ctaggaagaa 420  
 ttgaaacaga cataactctct aaagaactn 449

<210> 30312  
 <211> 420  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30312

agcttactat attgcaattg gatgcttccc gccaccagtg atcaagcctc ttgatagcc 60  
ttaaacatct ttctttcatc aatgtgcaca ctataatggt ctctgaaatg ttcattgtggc 120  
tccacatgat ntangtttgg atgaaaccta agcttatcag ccaccctttt ttccatccat 180  
ttcattgtag cttgtttatt nttgaagacc cttccatata tgtgctcctc caaaaaagtg 240  
ttgatttgaa agcttcttgt aacttcgaac catgaacaat aaatttccca tgaacatcca 300  
acttgtttac aacgcgctct agcttgaatg ttgtcaactt taccatttcc agatctcttg 360  
catggaaaat agttaagtct ctaacaactt caataaacat tntgatgcta tcaaactcca 420

<210> 30313

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30313

gccgatttag ttnttgtcgg cgagaggatc gaagtttggt ttaattgttg anaatnngat 60  
natectactg tgatgattgg gattcctang gcanatggag agagtaagaa tgagggagga 120  
acctatgcta tgactgccat tctacatgg ccaaatttcc caccagctca acaatgtcaa 180  
cactcagtca atatcagctc ttctcattac ccaccatcct atcaaccaag aacaccaat 240  
catccacaaa ggccaccctt aaaacaccaa ccagagaaag aattttccag caaagaagcc 300  
tgtaagattc accccaattn tgggtgctga tgctaactta ctcccatatc tactcaataa 360  
tgcaatggta gccataatcc cagccaaggt tcttcaacct ccatttttctg aggatacaac 420  
tcgaatgcaa catgaactca tcatggagga gtctc 455

<210> 30314

<211> 326

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30314

gggatgcctg tntcncnnnn atagaagtcc ccgacngag gacggaggag cacttggtct 60

tgaaaccaag gccactgttc ggaatccaca ctgacttcaa agaggaggcc ctctcataca 120  
 tgattcaacc tcccccaaca atattgctag gtcgaacccc gttggactca actcccacga 180  
 tcctacatat aagaggacac aatggagtct agtgggcatg atcacacaac gtgctgaagc 240  
 acgaagatgg actgcaccat tggaccttac cctcatgaac ttaaccaggc catctaattg 300  
 atagcccata tgactgaaga gaactg 326

<210> 30315  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30315

gacctaagta aactaactcg cttagcacga catgctggct tancgagtcc atacaaactc 60  
 agaaattaaa aactagaatt ttaaactctc gttaagccga agtacagtgg cttagcaagt 120  
 tcatacataa aagcataaat tcaaacataa atgatgaaca cgcttatcgg gacagggctg 180  
 gcttancaag ttcattcagat aaccagaaaa ttcattccaaa attgatgaat tagcttagcg 240  
 agtacatcga aatttcctaaa aaattggggc ttccaagccc ctactttcca gtcactttca 300  
 ggctaagaa ctctaataca aacacatcaa atgaacctac attacctaag aaactagatc 360  
 cctaacaaca tataatcaaa caactag 387

<210> 30316  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30316

cagggatgcg cctaattgat gaacatattg atattaatgt caagcatttc gttcttcgag 60  
 atgacgatcc tgagaacttg aataaattac agcccagaaa tcaaccaaatt tagtgcgatc 120  
 catcttgctc tttaattaat catccactgt ggcaatatga tccacaatta gtggggtaaa 180  
 gtttatacac aagtcagatc aaaataagag aattntaagt ttatgcaaaa cattggatat 240  
 tattcctcan aatatattan aatgaatgac atatattgtg cattctcgtt gtgaagaata 300  
 acatttcctc cactgacacc tcatgtatag gttgcagcca gcatgcatgc aatgagatat 360

atatggatga aagcaacaag tacgtgtctg agtngaactt gaacta

406

<210> 30317  
<211> 465  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30317

ngggtgtatt ctttnatctt gcannncgcg aancaacaaa cncaggcttg gaagagaagc 60  
gttgaggcca ttgattgata ttcattgtcc gcancggccg ctgagtgtc ttgcgtctgg 120  
acgagaatga cccactgatt cttcctttgg tggagacatt gttcaggcgc aaatgattca 180  
gtggatggct cgactcagag gaagaagatt cggtagtgt cgtttcatta gggagctact 240  
ttgaactttt ctaaagacaa atggaagaaa tcgcccttgg gtattatatt ggggacgtcc 300  
atcttgtggg tcgtaaataa taagtactaa ctgaaataag aagaggagag ggacttggtg 360  
ctcgaaagaa ttggaaagtg gggagatagt acatgtgtct ctgtggaggt cttccatctt 420  
ctggggtgtt attaccctt ggggtggaatc acctggaagc ctgtt 465

<210> 30318  
<211> 324  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30318

ttttttgttt attggcntac tcaaaacagg accacgtttc atattttctt cctagcatng 60  
acataactgt cagttactgt cgaggcttct ggagcatcta taacttggtc actatattct 120  
gtgcgacatt tgcgtggata agctgcatca aatctctctt gtctctctgg attccttcag 180  
cacgaaagta gtttatggtt gtcaattgct tggcaactgt acttcgtatc tctactttga 240  
caatcttctt ccgtatcgca tgcagagaag ccccttctc aagctcttgt aacaatactt 300  
ttcttgcttc ctcaaatacc atct 324

<210> 30319  
<211> 618  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 30319

cgaagcgatg acnactangn ctctacgaan nncgcgcaca cnatatgaat aatcaatgct 60  
 tgnnaggatt atgggagtag gccgatcaca tgtgtgtact attgtgtgtt ggtagcgccg 120  
 aatggtgcac acgcagagtt tatccgacat attttatant gcggcacata gaacaccaca 180  
 natcgcccggt' gtgggcccga cactaccaag ctggagcgtc agcgtagctt cccatcgtag 240  
 gcccgaatat ctctcngtct tcgtcatcag acacgcagag ggccgctcat gcanatctcg 300  
 tcgctcagag cgtatccgcg agacaatcgc gaaggtagat ctcaaactat tgcaagacag 360  
 ccacaacacg tatcacgagc gcaagaaaaa catgggcgaa agagcagaag aactcatgcc 420  
 ctaaaactac caacgcaaaa gtcacgagct gggtcccacg ttaaaggacc gccagtgage 480  
 atttcttttc gatccaagtt cggtaaccag ctggatcgac tcagtaaattg ttactggaag 540  
 tctctactac aaaagcctac attttgaccg ttgagatatg ctagcacata tccagaagtc 600  
 attctgcact actctttt 618

<210> 30320  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30320

ctagccggtt ataaggcaca tttattctga aattntaatg gaatgtttgt tgatgttatg 60  
 tgctntaagg tttttatttt cgtttattta taaaataaaa tctgtccatt tgtatgaata 120  
 gacaattatg catagttgta acaagaaaaa aaaaaaaaaa aagagacact tgtgcaaagt 180  
 caattcaacc attgtatctt tttttctcat ctagaagttt gcatagattt ataagaaaac 240  
 taaaaagaat tagtgcaaac tccaaaattg atccttcagt ttttgtcatt aaattagttt 300  
 ctcaacaata gataagaaaa aaaaaacact aaaattcatt ttcttgtgtt acaaaaatgt 360  
 tcagaggttt aagatgtgaa gtgtgaacac tgtaatctt 399

<210> 30321  
 <211> 139  
 <212> DNA  
 <213> Glycine max

<400> 30321

tcgcggactt aagtcaatgg tcaaaccctt accattctac gcttattcca ccaccttggc 60  
cgagacctcc cctagggcac atgtccttac catgtgtgct aagacatgtg tgctttcctt 120  
ttgggcttct actgagtct 139

<210> 30322

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30322

agcttgttgt tctttgtgtt tgctggtggc aaatgggttt attgtattac atatgatgtg 60  
ggggtgttag ctcaaacctt gtgtgtcaaa ctcatatctt tatcaatata agatatttgt 120  
gtgcaaaaaa aataaaataa tgaatattaa aaatcaccgc aatattaaaa gttatttcaa 180  
aatttaaagt ttaataaat attaattntt taaatgaaaa cttagaaagt attaaaataa 240  
tacaattaaa aaatataaat aattaaaatg aaaattntta aactcaatat attaaattga 300  
aactaaagta aaatttaagt taccaagtgt cattaagtct tttaaataat cacttaaaaa 360  
tatcaattga tgagatttca aataaaaaata ttacatatt tgcttatgac anaaataaa 419

<210> 30323

<211> 479

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30323

gacacaatat aatacagcag ctgtggtgtt ntgcagtctg tttggtggca ctaaagacat 60  
ttgttctccc cttaatctaa taggccttgt ctagattgtc atgttcaatc agaaaacacc 120  
aggtgaaatg gagtctggaa ctctccacac ctataaacag ggctagttaa ttttggtttt 180  
ttgttttatt tacgaaagat aatggatctg atggagcaag cagatataat ggcacaacaa 240  
gttttccga aggaacttat aggttttagtg tcttaatata acaagatggt aatcggattg 300  
cctgttatat tagaagtga ttgaattcca ccaagtaata gcattcatag gtaatgttgc 360  
acagacaata aattaaaatg tatattntct gcctttttct tttcttggaa gtcgatgcaa 420



tgacatgctc ttcactgtgg tgagtaaaag ttcagataca tctacatagt atactaata 479

<210> 30324  
<211> 479  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30324

agagcgggta gttcttgaga tcnegcaata ntgctctgta cccgcgatcc tntanaatcg 60  
aacctgcagg cttccaacct ggactattcc catcccaccc eggccttatt cggccgtgga 120  
gaccttgtat gtaacttaac cagccaacct cttgccgtcc accaattaaa tggaaaccag 180  
aacaccaaac cagggagcct ggtgtggcct gccacctgc aaattttggt tattatgtga 240  
atggtggcct ctggtaatca ataaccaagg gtgggtattc gatacaaggc ttaaaatgaa 300  
gacagaggct aagatggctc tggaatcggt accacgggtg taatcgttac caggcttgaa 360  
acgatgtcan gaagctatga agcctctggt atcgatacca agtgtgaatc gataccagct 420  
tataaagaac tggagtgatg aacctctgaa tcatacagcc tggatcata cacaagaag 479

<210> 30325  
<211> 488  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30325

agagatgact tgaacgcca aaaaccgctg tgagactttt gaggcgtact tactcatggt 60  
cttatgggat tcccctggaa tcagcggaga tataagatat atgtgagagg aggcgccatt 120  
cctttaggaa taagccctgg gagaaggac cttcccacca cagatgaagc cttggatta 180  
agaaagcttg gagaaagatg cttccattg gaggaatg aaagaaggga gagaaanaag 240  
agaggggagg agcctcgana cttgatggaa taaaagagg tatagaaatg gaacttttga 300  
agtatgtctc acaagactct cattcatcaa agttacaaca agtggtacac atgcttctat 360  
ttatagacta ggtagcttcc ttgagaagct ntctagagaa aacttnttg agaagcttct 420  
ttgagaatac ttccttgaga agctagagct tagctacaca cagcctctc ataactaagc 480  
tcacctcg 488

<210> 30326  
 <211> 219  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30326

ccaaaaccag cttgaccaat cccgaccac cccgggctta gtcagtcagt gagaaccctg 60  
 tgatgtacct aaacaaggcg agctcctggc agtcaaccga taaaagaaca aagaccacat 120  
 agcaaggggg cttgtgtggt ggctggcaag ctgtgaatct tgtgtgatat atgggatatg 180  
 gcctctggta atcgattacc anaggtgggt aatctatta 219

<210> 30327  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30327

agaagcattg ctgagactgc accaaaaacn cagcttatag tgcgggtcttg gagacaaagg 60  
 tcagnggtcg ccaatattgn agatgaggtc ccaagtcctt cggattgggc cggaccatgc 120  
 cctctgatnt ccactgggaa attggcgaag ggatgaaccc ccccggtctt accccacaag 180  
 cattatgtaa cccttaccgg ttttaaaaac cctataatct ggccctagct ttagaagttt 240  
 catttagtaa aggcttgtgt ctttggtttt gaattatata ccaagatctt cttcatctga 300  
 tcttgtctct accattctca ttctttgcat gttacttctt ttctgaccgg cagattcatg 360  
 acgagtcacc gagagactaa tacctggacc cgctatcaac tcgacaagaa cgatcaacgg 420  
 agatgaagag agagatgtgg acttcttcga ctagaagggt gccg 464

<210> 30328  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30328

cgggcccaga aggagatttg accttaatct tgcnnattca tagtaccngc actcaagagg 60

accgaggatg agcaaatttt tcttaangac ccaaccctaaa gatttctcta taccttggtta 120  
aatctaggaa acctatgggt cagggcaatt tactctaatt tggggaagga accattagaa 180  
tgaaaaggaa aaggtaccat tccccccac aaataagtgt ttgttaaaaa agaagcaaaa 240  
aaataattgt gtggtaccaa aggtgaaagc acttacgaaa tgaataggag aagctattgt 300  
acaaaacaga aagacattgg attatctaga cttggctctc ttaaaactaac gttgaatcta 360  
aaaaccagga tttttgacca cacctcctac acctgaaaat cttctatcta ttatattttt 420  
acttatgact a 431

<210> 30329  
<211> 341  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30329

agcttttata ggatttattg aanatctcga ctntatgtgg gcatggatgt ccgtagacg 60  
tattatatta caattagtat agaagtcttg ttattaacct catctattat tttattagaa 120  
tcactttttt gtgtattatc ttattagaat ctctaacttt tttaaaaaaa caaagacatt 180  
ctaagatggg tctttgaaaa accatcttag aaagtataca ttctaaaata attnttgaaa 240  
aaattatctt agaattctta atatgtttta tttaaacaaa aacgttctag ccactctaga 300  
aaatatacct tttaggaagg gtctttgaaa aattgtctta c 341

<210> 30330  
<211> 489  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30330

gagtagttaa gtntctgaca caanatactc acagcggagg aaagaaggcg cacggataga 60  
ctgcattgta ctctggtag agactgatta atggggcggtg gagagaacac ataagacacc 120  
ttcgtatgtg cctacctata aatctctcag cgtagcccaa gagataaaga aatagaaaaa 180  
ccatgtttga aatatgtctc ctaacgtctc tttactgtcc ttacatgtac ctactatcca 240  
tgaggatacc ggatgccgat aaatagtctg actaattcag aaaatgggac agtccgccga 300

ccagttagt gatcgagttt cgaagaacat cattcgatgc tgagagtact gtatgaccgt 360  
 ctccgaatga acatgatgcg tgaaggggtga atggcattat gagacgacct acaggcaagt 420  
 tgcacgagg agacaccttg gcatagtgga gtgatatcaa gggataatca accgattgac 480  
 caagaagcg 489

<210> 30331  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30331

agcttcattg atagaaattg gtctaaattc atcaagctcc tatgagccat caacttttgg 60  
 aacaagtgta atgaaggagg ggttgacccc cttgtgatta caccatgttc ataaaagtca 120  
 gcanaaacct tcaacacgtc atccttttagt gttgggtcaaa actttgtaaa gaacttaaata 180  
 ntaaagttat atggactcgg acttttggtta ctatcacagt tccttactac ttctctaata 240  
 tcaactctct gaaacttttc aacaagcata tcatttttca caatagggtt atgtttgaac 300  
 gactctntaa gccccctaa ccttgggtcta atccccctc atattgaaat ctctctcaa 360  
 agaaacactt canattctct ntaaccagca ttggatc 397

<210> 30332  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<400> 30332

tatgtagtta aaaagggttag tcttctagtc attcaaaatg tctttttggc tcaacagacc 60  
 aacctatgta aataaatacc aataattcca taataataat attattgtgt gattaactta 120  
 ttactataat actttaatat atacttggtta gcctatttaa aggattatat tcaactagctt 180  
 gcatacaagt gtagactcat tagcctatgt agaagtatgt aacttattca aattcaatag 240  
 acctttacca catagtaagc atttaaataa acttccaagc ttaaccaaac ttttaaaatg 300  
 tcaagccatg ccttaaaaaa gcccatatcc aggaacaag gcagagctca gacctttgat 360  
 ttgtaaagta agacacgtc aagccttaaa tcctaactta actcaatccg tttccacctt 420  
 gacctgatca ttaccacgt ctaactaa 448

<210> 30333  
 <211> 416  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30333  
  
 agcttttattg taatgtttacg ctccaacatc attttgagac gcacagtctg cacaacattc 60  
 atgaaaacaa cagaggtcaa cagtntaaat atccaaggct aacggagaat gtgtatgaag 120  
 aataatatat ggcattgctta cgtgtaatcc ttttttttca aaatgaagat gaaaaaatct 180  
 aatgtttgtca aactactatg tagcctctat ganaagatga cctctttctca gaagaaggct 240  
 tcaatcaacc agagttaatc aagagaacct aagtcctcaa tatagatata caatgtatcc 300  
 atgacaaact aaaatatata tgtatacata tattgatata tacatattga aacaaaccca 360  
 ctageccaaa gctgcacata tatatatata tatatatata gcaataacct taagag 416

<210> 30334  
 <211> 467  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30334  
  
 tataaaactc aagggatgat ttgcaagat ctacccaac agatcatctt tttcaggcct 60  
 agtnngcaga gtttcaattt ccaaccaaca catgatggta tntaacattc taattatatg 120  
 tggaatagga tttgtggacg atagggcgct tgtttatatt ctccaaaact tcattagggga 180  
 acatgttcta atttggatga tgcccatggt gatnttccag ttaggtgata aataaaagga 240  
 actgtccatg gattactgga tgaacaaaaa taagtatatt aaagtntgt atcctgctcg 300  
 atgtctgttt tagtcaacat ttgagactta cttaatgttg acagtagata aaacattttg 360  
 aactgataat tgggtggtgtt ctttaagctg tatgcttgca ttacatttnt cttctttata 420  
 taataattag gtcataagcta tttctacgct tcaagtgtnt attcatg 467

<210> 30335  
 <211> 501  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 30335

agacttctat tcattcgatc acacncnaat naagctcgng cgcgggatcc tctgagncga 60  
cctgctgcat gcaagcttgg ttcnatttnc tcaacatang caacaacgag cgatgggtcat 120  
tcatagacca ctcacccaaa tatctgagtg cgctgggtac atcaaagat tgtgctcacc 180  
tctttcggcc gaatcgatta tatatatata tctcataaca aatcctacct tcgtataacc 240  
acctgctact agagttgcag gtttcctcaa cattgctaga ggacatatgc cagccttctg 300  
atagatctga tatacaacgt atctgcttcg ctaattgttt atgacctggt attgaaccag 360  
acatatgtgg cgccatctac atatggctat atgcagtgtt gaatacactc acctgccatc 420  
aatgagatag ggtccttcag tgttaccgct tcatagcttt caatcacatt tacggccatt 480  
tttgagttat gagtgcgtcc g 501

<210> 30336  
<211> 488  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30336

gagtatatac tgagtactcc ccnctaacac naagctggag atatggcggc accataggca 60  
atatgggcca cttttgctcc attctagcca tcangacata aggaggcccc tcttgaccat 120  
ggaactccat atactgacaa tgtgaagaga gctataggca gcaatgggtc acacatgcgt 180  
gatctataat gtccgaagca tggacagatc cggaacaaag actcatcatt aattttttga 240  
ttaactctcg agctggaacc atagtgttga aaactgttaa tggctcgaac tttgttaata 300  
caggggaaaa tcttttccaa tcgcctgatg ccgctggaga cgaagctgtt aaacaaatgt 360  
tattctagta gaaaccaaca atgagaacta ctaatgttta tccgggaaat tggtggagga 420  
aacaaggaac atatctattg actccgtgag cactcattga tctaattatg ctccagatat 480  
tggaaccg 488

<210> 30337  
<211> 399  
<212> DNA  
<213> Glycine max

<223>        unsure at all n locations  
 <400>        30337  
  
 attacctttt acctcgggtgg ctgaatgaag tcccgtatat attcaaacgc ctggaattga    60  
 attcccaaac tttgaaccaa attccaagac cattaccttt ttctctgatg gcagattgga    120  
 gtccggaata tatcgagacg ctcgaaattg attattgaac ctcaagcana ttcaaataaa    180  
 cataacttttt actcggatgt ctgattcagt cccgtaatat atcgagacgc ttcgactaga    240  
 atgccgaaac tctgaganat tcaaacgaca ataactntnt agtcagatgt ctgattcaat    300  
 ccccgatatat atcgagacgc tcggactnga aaagccgagc tctgagcaaa tcaaacgaac    360  
 aaaattntta ctcgatgtc agattgaggt ccgtatatn                                399

<210>        30338  
 <211>        437  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        30338  
  
 gaaactcagc ttcacattca attcaagcgt gtcgatatat tacgggactc tatcagacat    60  
 ccgagtaaaa ggggttattgt cgtttgaatt tggttcagacc ttccggtattc catttcgagc    120  
 gtctcgatat attacggaac tcagtcagac atccgagnta aaagggttatt gtcgtctgaa    180  
 tttgtctcaga gcttcaacat tcaatttcga gcgtccggat atattacggg actcaatcag    240  
 acatccaagt aaaaatttat agtcggttga atttgtctcag agcttcggta ttccatttcg    300  
 agcatctcga tatattacag gactcaatca gacatccgag taaaaaatta ttgtcgttcg    360  
 aatttgcaca gagcctcaac attcaatttc gagcgtttcg atatattacg ggactcaatc    420  
 gaacatacga gtaaaaaa    437

<210>        30339  
 <211>        410  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        30339  
  
 tatcttatat ggcattccaa tctccttaat aagagatggg tganaaataa aatgatttgt    60

gaaaatcagt ggatctgtat ggatgatacg aaattgcacc atttcaattc attcttgggt 120  
 cataagactc agccatccaa gattcctctt atgatatgaa tcaatagcgt tgccaaattg 180  
 aataaaaaac atgactcata agattctaata aactaggatc ggctgctgcc gctatccaag 240  
 atcagtaact atgcgttaaa tactccattg gattgcagca cccaattaag atatcaagcg 300  
 agcattgagt agacagttgt caataattta agaacaagct ttagaacaaa ttatctagtc 360  
 caacaaggga agattgaatt taacgagaag aagaagtgag aataccttga 410

<210> 30340  
 <211> 520  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30340

gggcagtagt gcttngang cttegcannn ncgcgacacn ataganntac tcagctntac 60  
 acaatgantt tattataaca cataatcatg ctattattat aaattgtgga aggattgaga 120  
 gtatagtgga ttagttcgat gaatttcag aaatttatat tggttcaata tatttacatt 180  
 taacctctat tatataatac tgaatatttt aagcagtgac aaaatgctta ctatcaaaat 240  
 aaatatattt atgcctgatg atgcttacat gtgagaataa gcatgtgaat aaaagaaata 300  
 cgttataggg attcataaat tcctaaaatg tatattttta gattttcact cgtttgctat 360  
 tctgcttaaa taacttgaca gttggacacc tggacaccca ccgaaatttc aatgctcttc 420  
 ataagtcgac tattaaatgt gtcgcgcgtc actaatttat ttagattcta attctatcga 480  
 aagaaccact gtgttttaata cattctataa tagatatagg 520

<210> 30341  
 <211> 360  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30341

ttttcttctt ttaaagaata aaaatgaang aaggtagaag agattataaa aaaaagatt 60  
 accttcagag naagaggcct ataataatat ttattnttta ttttcatatt tactctaatt 120  
 aattcaagat aggtcatggt atgcattcca ttgtccctct catntcacat tagaagggtt 180



attcttatca tgcacaacat aatcatttat tttaggtaat atctaataatt tgataatcaa 240  
tatttttttta ctatataacc aaactcacao ttcanaatat ttgataagaa acatagaaat 300  
caaactaata tataaataaa aatacccaaa ataaactatt agaaaaaatcc ctattacaca 360

acctataaaa	ctcagcttct	cctccggtat	cggttcaagt	cgattcatcg	ctcttatatc	60
ctcgcctcga	tcacactcca	ctcggatcat	caacgcctgc	ttcattttcc	tttacttggt	120
cttcggtttt	tgcgctcgag	ggagaatcgg	aaccgaaaac	gagaagggaa	aggtctcttc	180
ttctatggaa	gggagtgaga	gtgggagagt	ggcggcgggg	actacagaga	agggagaatc	240
ggcattggaa	ttgaagggca	gaagcggaat	atgaagtgtg	ggaggggtga	atggaggagg	300
gggtgagggg	acgtgcctct	ctcc				324

naagcttttag tagtagaatc atggggaccaa ctcatnttat ttcanaaagg aagtcatatc	60
tagtcaagggt ctgagagacc atacaagtnt cctaacgath tctaattatg tggggcatta	120
agtctatcat atgctgacaa tagccgagaa gcccatgaat ctcttcnggg cggagtangt	180
gtctgccatc gccttggcct tggctaacaa tcggggaagt tcttgactcc cgttcaagggt	240
aagagcaaac cgatccatcc acatgggttg ctccttggtgt aaagagtcga tcacccttcc	300
tctagcctct ntttccgcgt atacttgggc atactcatcc gcgattctat gctcgtgggc	360
cgtggctaga cctaactctt cttgggtactt ggcaaagagt cgatcaccct tcctctttca	420
gaaccatgc	429

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30344

gagcagtgtct agatcctggc catcaaactc agctnataag cgcgggttcg ggagaccaa 60  
 ggcaagccgt cgcattttgc aagattatat cccgagacct tgggattggg tccaaccatg 120  
 ccttcttgat ttccagctga gaatatgggc gagtggagga acgccccggc atttacccca 180  
 caagccta at tgtaaccttt accgggttaa aaactctata agtgggcctt aggttttagag 240  
 gtttttcttt tggttaaggct tggggctttt gtttttgatt tattatacag agatcttctt 300  
 catctgtccc tggctttacc attctattca tttgatgtta ctcttttctg aacggcaatc 360  
 gatgacagtc cccgaagact aatcctggac ccgctatcaa cttcacaaaa atgaataaac 420  
 ggaaatgaag gaatgggatg gggactcccc agactagaag atgggtcn 467

<210> 30345  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30345

agcttgtctt atctttttct gaattcatgc ataagatact gacagttntt tcctanacat 60  
 ttctaagaac gaaatagaaa ctgaaagata tggatcgat aatcaattta tcttaatgat 120  
 aaagtctaag agaataataa gaatctagtc tggatcttct ttttacctat ttaatatntc 180  
 taaatattat gagttctcca tttagttttc tattcttcag agacatgtaa acacaataaa 240  
 taaaagactt gccaaagcca aatcatatt tcaactataa ataaacaaga gttgcgaaca 300  
 cgcgtgtaga taaattgacc actaattctg gtgcgaagac cactaaataa attgacgagt 360  
 ccactaatta aggagtgtct aatcgtctag ggagtataat gtatagta 408

<210> 30346  
 <211> 335  
 <212> DNA  
 <213> Glycine max  
 <400> 30346

atagcaatat gcgaaatggt tttcctaact cctacttact agtatgagat gctgttttac 60

tcaagatgct gacaacaacg agttagtggg ttatttcata atacccta atctctcttc 120  
tcttcacgc aagcgacaac atagcgtaaa atagtctatc ctatgagagc atcacaaggt 180  
ggactcaaac tgcaaaggaa gcgagcatgg tcttagcata cacggcaaca acatgtgacc 240  
ttgggttggt cttggcaatg gtattggctt cacggagaat ggtgccacca actgctggaa 300  
tcgagactaa tgaacataag cagacaacta tcaac 335

<210> 30347  
<211> 365  
<212> DNA  
<213> Glycine max

<400> 30347

gttgaacatg attggattga ggatttgatt gacaaaatgg attaggggaa tgtgatttca 60  
aatctgcact tatgcagaat ttgctgggtca aaataggtgc cagcaggatt ttaacttttg 120  
tgcaaaaaat gcttgtgtgt ggttggctgt ggaaagagta ttacacaatg agttctggat 180  
gtttgctagt agatccccac ggtcacaatg taagcttatg cactatagac ttccagtaaa 240  
atthttggagt cgatccaacg gttaacgaat tggatccaaa gaattgtact gtggtcttta 300  
aatgagaaaa ctatgatttt ggtgatgtgt gagcaaagta tctgcctttg ctctgtttgt 360  
tggt 365

<210> 30348  
<211> 475  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30348

nggaggctgt ncatgcgtan tgctnacnan acaaacncaa gctnatggga naacatcaca 60  
tgggcacnaa gaagtagggg gggaaaatta tgggagagtt ttncactaaa taccaaggga 120  
gttagtgatt tacagaagaa gctacatctc acagaaacaa gaaccacaat agccttggtca 180  
agcttcagtc actagccttc aattatatag aagggtccgag gaagacataa tacaagaat 240  
taaagtaaag gaaagagggg gagtttgcta aatgggggca caagaaacct aagggggatt 300  
ttctatgga catgtaaagc catagctatt atctggacca tacatgcca ttctgggcac 360

acctaggggtg atgacagatc tgctggtagc ttgtgaacaa caacacagct aagggcacat 420  
acacaagcag gcacgtctca aagaatgatt agttcttgtg tgtggacctt ggggg 475

<210> 30349  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30349

agcttacatg gtctcgatat agtgccatgt aggactgcgg ggtctgtggc aatgtggcat 60  
aactcgtaga aatgtgtttt gttttatttt cggacaccaa tatgnttact cggtagtaga 120  
attgcatttg naagttgaaa ttanaattac aatnaaggat angtttgatg aatggagcat 180  
ctgtatatan ttttgcgctt atagatagaa gcatttacat tgagcacatt ttgcttttgc 240  
cttttgctta tatgtattgg ctataagggtt ttgggttaact ggttntgctt taaagttgct 300  
ttgaactgaa atccaagtgc taattaagat ttgttgtagt gtagaatgca acaaggtggc 360  
ggagtggcat aagtctcaag aatctcanag aaaaataacc ttaataactg ctttgcatac 420  
atgtaacaat 430

<210> 30350  
<211> 513  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30350

nnaatggctg ggcatagagc anctncaaca ananaaacac aagcnnatcc ctttggacca 60  
acatgtgcca gttcaattac caccgcctgc ttcggtcttc cgtgggaaaa cgtcaccggc 120  
gtgttctccg acaccggctg gtacgccacc aaccagggtg cgttgacgt cattcttcag 180  
cacagaatga aacaataccc atgcctcact cgcgaaccct cgtcggcgg cgcgttcttt 240  
cgttcctttc tacgcggggt cgacatcgct cgctaccttt ggggatacaa catctcaatg 300  
cccgacgctg catcgctaga cctcgatgaat tggctcatga atagaccgga gtggaagatc 360  
atgaacggga gagaccatt tctcgttgcc ggtaagatca ctngngatnn tcggagactc 420  
actgaagaag aatcggtatg ggggaacaag cttttggntt ttactgctgg gaaaacatgt 480

cgatgcttgt ggtgagtcna gtccgtgaac gcg

513

<210> 30351  
<211> 436  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30351

cetgcttttc tttctcatc canaaggatt cggcctacc tttcttaatt gccagtcacc 60  
ttcctgtgtc ttcctttggc aaccttcacc actgcttcaa ttcatagaaga aaaccttagg 120  
cttctcacia atcttgcatc tcatttcaaa cccaagtcac accaccaatt ttccccaaaa 180  
gataaaagtg gtttactggc atatcatcaa agtcaagtca aactgttcca tatgcttcaa 240  
gatgagaaaa gcactactta taaataaaac ttacaatgta ntataacata gaataaatat 300  
tgtactanaa ctataatcna tataactaatt atccccaaag canaaaacia atgtcatcag 360  
gaattcaaaa ttcctgtgac tggctctgag tgtcctatgt ctgcacatnc ctctcatctg 420  
tcagatgaag cactan 436

<210> 30352  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30352

tggcaataaa tactcctaca ttaatctctt catgctttgn atgnnnnggt cgncccttgt 60  
cacgggaagc cggaaggtcc atatcacctt cttaattgta cacatggggc actgcacccc 120  
caaatgcaca agtaagaaga gataattttc cgggctctcg tgtccgtaaa atgcattcat 180  
atcatgcacg gcataagcat ctcttcataa catcatagtg gacatatcct gcatttgtcc 240  
gttatcatat tccagcctca cattntgcat gagtcatggc atcatcatgc atatgcgttc 300  
aacanacttt ttgatctgca aaattgcata ccatttgttt tcatgtttgc tcatccttgc 360  
gttntcctct acaaaacana aacaaaaaag ggggaagcgt gaaacttcat actacattct 420  
tagtttcatg tgtaggcac cacgagccaa ccat 454

<210> 30353

<211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30353

agcttttagtc ttttcaactg cacaacgctc ttaatattggg aagagtatcc ttgtggaacc 60  
 ttcacctgac gaagacactg acaataactt atcttttctt tcttggacaa agtatggcag 120  
 gctgggggca agtaaatttt cttcccatca gaccttggat gcaactgtgc tcttataccc 180  
 atatcagcta gatcttgacg ggtattcaag ccattcctcg tcttgccttg aatgttaagg 240  
 agcgtcccaa tcacactgtc acaaacattt ttcttcacat gcataacatc aatacaatgt 300  
 ctaacgtcaa gatcacacca gtacggaaga tcaaagaaaa tggacctctt cttccatatg 360  
 caactctgac tnttatcctt cttttgggtc ttcccaaata cagt 404

<210> 30354  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30354

aagctgggcg tgcacanngc tgcgacacna tagaatactg cagcgtgtcg attcattcta 60  
 tgtaccgcta gcaggccaca ttgtgtttct tgcattacta tccacgacga gtggactggt 120  
 tatacccagt gaggacgggc ttaagccatt ntacttaagg cgtgagtcac ttaactgaag 180  
 atagaaggaa tctgccccga acggttgact gatattatcg cgtaacttcg ggtggaatca 240  
 attgcgaccg ttcggtcgtc gcgaaccacg ttggaaagca taaacaggta gaaaacaagt 300  
 atgtaatcga agaaacatct cgttagtaaa tagtgcgga agataatcgg acggtttctc 360  
 tttgggatgt ctcatgctta atcgagttga ttggtactaa ggtgaaacta gagtttagtc 420  
 aactcgctag gcagctcgcc acaaaagagg cttggaagtt gcgttttgat gctcctaaga 480  
 aaatggagat gtgacg 496

<210> 30355  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 30355

agcttaacta tatgtatgcg aagtgggtgg aattcctaga gcaattccct tatgttatca 60  
aacataaaaa gggaaaaggt aatatngtag ccgatgctct ntctcggcgt catgcattac 120  
tttcagagaa tggtttcttt agacatgaag gctttctttt caaagaaaac aaattgtgtg 180  
tgcctaaatg ttctactaga aatttgcttg tttgtgaagc acatgaagga cggttaatgg 240  
ggcattttgg ggtccaaaag actctagata cattacaaga accattttat tggcctcata 300  
tgataaatga tgtgcacaat atttgtgaac attgcattgt atgtaaaaag gcaaagtcta 360  
aggtaaagcc tcatggattg tataact 386

<210> 30356  
<211> 380  
<212> DNA  
<213> Glycine max

<400> 30356  
atatcttaag ctgtagctac aaccttgatc tccccctttg gcgtcatcat atagccaaag 60  
aactcggaga tgagcacagt gataacaatg gagtagcaag atataagtat cagagtatta 120  
aatacaataa gccaaactca taatcaagaa ataatgaaac cagaatttaa ataacataaa 180  
atgtcaacaa ccacaaaata tccaagactg aaatgtaaaa acacgagata aataagcaaa 240  
gtacttagca taataatgta aatgctaaga aactaaaagc cgaaatacac ggcgtataaa 300  
agataaataa tcagaatcta atagcttaga agactgagga aggggtggaa gatcgaaact 360  
ctgacgaatg tatccgacat 380

<210> 30357  
<211> 361  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30357

agcttgataa tttccccaat ntatggncat attggagtga atntgatata tnaaatctta 60  
tttatggnta aactgtctc tagaacattt ccatagaatn taattgaaga aattgtgcac 120  
tttcaggaga aaaaaaagct aagttttgaa ttgcaaaata tagcagttgg gctaagctca 180

gcagctggct aaacacatat ccaccgctaa gcacagcttg agcgcgctta gtgcaaagga 240  
gaatttggca gagcatcagc atcaaagtcg cgcgctaagc gcgggatcag tgcgctaagc 300  
gcagaatgtg ccttcagcca ggctaagctc gagactggcg ctaagcccaa tttacttac 360  
t 361

<210> 30358  
<211> 473  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30358

actcagctag aaagcaactg gatgcgttgg tcaacttggg aacctatctt gttcttgaat 60  
cagaaatctg tacctgtcgc aagggtttgt ggtttgtgct cctctgctga ccaccataca 120  
gaccttngcc cttccatgca gcaacctgga gtaattgagc aacctgaagc ttatgctgca 180  
natatttaca atagacctcc tcaacctcag cagcaaaatc aaccacagca gagcaattat 240  
gacctttcca gcaacagata caacctgga tggaggaatc accctaacct cagatgggtcc 300  
agccctcagc aacaacaaca acagcctgtc ctttcttcc aaaatgctgc tggcctaagc 360  
agaccataca ttctccacc aatccaaca cagcaacaac ccagaaaaca gccaacagtt 420  
gaggccctc cacaaccttc cctcgaagaa cttgtgaggc aaatgactat gca 473

<210> 30359  
<211> 302  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30359

agcttgnatc ggtttttgaa tacacgnat actgtttagg acgtgacata aatatacaac 60  
atgatatt ataaattgat tctaaagtcg gacggaaatg caatgagcca gtttatgaaa 120  
caatgtcata actcctgtgt atatggttat tgcattgtgat gattgataaa tgactccgaa 180  
gtcttatact ttcgattaat atatacaggg tttgatactg gcgcttctta tttttatct 240  
aatctgggtg taatgatgta tagngtatac gttgacttga gatgtttgcc actaattaag 300  
ca 302



<210> 30360  
 <211> 380  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30360  
  
 gagccctata ggggatggac cttttcatgt tacggagatt attattattt atgcctataa 60  
 gnnggacctc cgagaatagt atggagtttag caccacttat aacattgctg atgtaattcc 120  
 ttttgcaggt ggagctgata ttgatgagga ggaactaaca gatttgacgt caaatcctct 180  
 tcaaagggaa ggcgatgatg cactcctccc taagaaggga ccagtctcta gaaccatgag 240  
 caagaggctc gcagaacatt gggctagagc taccgaagaa agccctaagg ttcttatgaa 300  
 cctcaaggta aatatctgaa cccatgggcc aagggttgcgt ccaattatct ttgtacatat 360  
 tagactagga tgtcattata 380

<210> 30361  
 <211> 516  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30361  
  
 ngattgggag gatcnnagcn tcgcannnnc catnatatnc ggaaagacac acgggggatcg 60  
 tntagagtgg atgtgcacgc atacttgctt ttattttacca aacngnaaca gaagcgcacc 120  
 gcatgcagca taattnttat tgtacacgaa gtntcaatta gacaaagtat cgttcttatt 180  
 aagaagactt gaactcattc attcctanat cctgaccnag catgatccta atgatcaaga 240  
 aatgcgctcc tatectatca ttcactaaaa ctggatttcc taciaaatata accacacata 300  
 caagacaggg aaggtccaag gttatattgc ctgatgcccc gagaacagtg agtgtatata 360  
 taatcatacc taatgactga tccctaaaaa ggtaatacat atggatgaca agatctgaag 420  
 tattactgac ttcctacat attcagtaaa taccaccatg ttggttacag agacacctta 480  
 caatgcagag gattgcactt cgagaacaga cacgtt 516

<210> 30362  
 <211> 293  
 <212> DNA

<213> Glycine max

<400> 30362

ggcaatatac tcacacgttc gcggagacaa acaatatcgt taagttgtaa gcagtcatga 60  
gtgcgatatgt ttgctacact ggccagggca gcgtgcacag gattacgttg tttgcgatga 120  
accatattag taatcaatta gtaataaatt aatattttga atataataaa ttctttaaag 180  
cgagaaaagt cacattaatt attcaactaa ttgagtgaag tccttaaatg tttaaataata 240  
ataatcaata atgtatgtac ctagtggatg tattatctat ctagttctta aac 293

<210> 30363

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30363

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gagagaaaca aatgaaaaga taggacgata ctgctttgct tataatgttca attgaatcta 120  
atgaggggaat cctctttcca aaggctctccc ctctctacga gactgcaaca catcagatgc 180  
ttagttcccc aatacatata aatattaatg ctttaccttc accgcttcta ctatgttagt 240  
caagtgcttg ctattacaac tataaccacc ttactcattc tataacttcc tataccttat 300  
tagaagcaca ttaagaacaa acaagaccct aagagctgtc atgggttcttg agtaagaaac 360  
caatcactgg aacacatcta 380

<210> 30364

<211> 388

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30364

tttttttaat aaattgtctt agtggcattt acgagagctg gtggatgaca gtaaagtnaa 60  
tgattcatag ataattgcat tattagaccc ataccccagc tgagtatcag ccatcagggc 120  
acataacaag acaagactaa gatttgacct cggttagatc ggaatctaac ccatcaggta 180  
attgtgactc ctcttataga ggaatgaacc aattaaaacc atgcataana acagataata 240

tattacatat ctacagagca agttaaattgg ctacagcagta ttcattccaca gcaccacctt 300  
 ataagtgtca ctggcctcgc acatatattaa agatgttatt aanagaacaa agagaatttc 360  
 attactgggc aacactagtc ctataagc 388

<210> 30365  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30365

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 ttngcttgat attgccatgc atatctctat gatatcatgt gatgcaatcc taccceccaa 120  
 gggatttgga tagaagactc caacaagttt gcgccagaga tgcaagagaa gaccctaagg 180  
 ttctcatgag ccttaattga gatatttgagc ccattgggcaa agtatgagcc cacttatctt 240  
 tgtacatatt agattaagat atcattatctt ttgggccttg tatttatggc tctataatgt 300  
 aagtaagggt ccctagaaat gtacgatctt tcagcccttg tattttaagg cacctatact 360  
 agtttttgta ttaagggtac ttttgtaatt tcacatgcat taagtgaata tgtgatgt 418

<210> 30366  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30366

agggttttat ctttgaacac gcgatcgact cgaaccgcgg acttttagtg gcctgagggg 60  
 gcgccttttc cttgtatttg ataaaaaat atggggcggg tttagtaaa aaaatgacga 120  
 taacgcataa taaagattcg catcagattt tgccctctacc caaagtgtgg aatgttcgtc 180  
 gtctcaccag catacaatca atatatgaaa aaataggctt tatcttgagg ttgaagaaac 240  
 tgatgcgtac gtggatattg cccactcgct ctttgtcatc ttctttatgc ataattgttg 300  
 gccttaatag ccagaaatc aaaagcagac tccatgtaaa aaattaagac ctattatcaa 360  
 ggaacctaac atttgctaaa tgaaagcttg gaactataca aaggtctaaa acacgttaat 420  
 ttcatgacct tn 432

<210> 30367  
 <211> 478  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30367  
  
 cacacccacc gcaaaacgaa aacaaaccac ttaacagaac taacnnannn nacaggaag 60  
 ccatatcctc ancctgcaca acaaaaaccn gaggacgaaa aagcngctc agagcgcagc 120  
 angcncttat actattgagc aaatcaagca catgcagcga gacagaagaa atgaactgac 180  
 aacacacccc aataatcttt ccacggagca aagaacacat atacgcagct gcaataacac 240  
 cattagaaga cccaagcacg ccttaaaata aattcaagac tgaacaatgg gaaaaacaaa 300  
 accaccgct gcaaaggaga aaagagaggg ccaaagacc aaagggccat accataacac 360  
 aaggaaaaag cacaccactg agcaaaataa agctacaata gcaagagctc tcctacacaa 420  
 aacgaaccaa aaattcagga ccaccaaaaa aagacaacca gagccaaaaa agaacaac 478

<210> 30368  
 <211> 485  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30368  
  
 agagaatggg tgaacctatt gttataccca cngncgaatt cgagcatcgg accgccggga 60  
 ttctctaga gccgaccgg agggcaggcg cagcctgttg tactatgcag cgtctctcga 120  
 ngaaacacgg cggngagctt gtgcatagta ggtaacaaa aaatgcattt ggtacaaact 180  
 tactagaagt tcttgcaagc attctcggg agactactct atattaagct tatgctcaac 240  
 taagataaac aatggtttca tagcgctctt tcattntagg gtccttacag gtcttccaaa 300  
 actttgaagc tgctcttcca tttctactcc aacctatagc aaacgtaatt acgtccaatc 360  
 aactaacaat attcttgccg gaaccaaagg cacgcttgga aaggataatt ggaggatcac 420  
 catagtaaaa ataatatata ttcaactcaat gggattatta agaacatatc ggcccttatg 480  
 aaggg 485

<210> 30369

<211> 483  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30369

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 cagagtatca ngacattaat ttgttttcta caagcncaan agcccagagc gcttttgatc 120  
 acaaagacga tgatcttcac aatcaaagaa tgggttcaag atggaatcga taactettca 180  
 gggtcaaaag aactttggtc tcoggacccc tagactccaa cttcatgac caagttccga 240  
 gattcaagat ctagaatcca gactgcagat ccacgattca tgagcatact cettcaagat 300  
 cagtttcaaa tggttttgtt aaaaactcga gagcacatga tttttcctca cacctttacc 360  
 caaaaagtgt tactcctctg ttatcaatac tacactattg taatcaattc ccagtggaac 420  
 aatggttgc aacagctttc acctgaattt acaaccgttc cacttggtat caaagagtgt 480  
 acg 483

<210> 30370  
 <211> 447  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30370

aggagatttt gctcgtatat ctanggcgat tncnagctcg gaccccgggg atcctctaaa 60  
 gtggacttga ggcaggcaac cnggtgtnga acctccaang gaggcgggac ctgggagctt 120  
 catgggggtc cttcatggga ttttcacatg gaaatgcacg gaagactaaa gaatataggt 180  
 gagagaagcg ccattcatta aagaataagc catggaagaa tgagcttcac ccaccaagat 240  
 gatgccttgg attaagaagc ttggaaaaga tgcttcaatg gaggaaaaga aagagggaga 300  
 gaaagaaaga ggggggagca cgatattgaa ggaataaaag atgtatataa gtggaacttt 360  
 gaagtatgac tcacaagact ctcatcattc aaagggtacaa caaagtgtta cacattgctt 420  
 ctatctatag actaaggtgc ttgcttn 447

<210> 30371  
 <211> 541  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30371

gggggtcggaa gaaatcgang nnactttggn ananntctnc nnnnnntnta ngnanaagng 60  
cccagcnnan canntccgcg naccaggagg ggcgagacac ggaactanat tanttcttta 120  
ctcttagaag gaaatctacc tgtgcggggc gttggtggtg gatagtaagc aaaccaagag 180  
gatgcctgcg acgcgaattg gtttgcccat ttgaatntga atgttaacct taacacacaa 240  
taagcatacc aagcccagta ttgggtatgg ctctcttgaa gccttaaacy gacgaaagtg 300  
cataaactcc tatttggttg tatgatgatg gagaagcggc actttttgga cctgaaatgc 360  
tacaacagat taacgaacaa gtgaagttga ttcgagagaa gatataagca tctcaggata 420  
ggcagaagag ctatatgata gaaggggaaa ccattaattt tctggaagag acatgggttt 480  
tgaaggttct ccaaaaccgg agtcagaaga gcctcaatgc tagaagttac acccaagatc 540  
g 541

<210> 30372

<211> 173

<212> DNA

<213> Glycine max

<400> 30372

caacgattgg tacctcaaaa cctttacact gggcaatgag gggcattgtg cattagcctt 60  
aagtgaacat acgggcaa at caaaaattct cacctgtcga tgttttttaa caacaaaaaa 120  
aggagggaca aaccctatga tttaatggat tgatcaaaca ttaaaccact tca 173

<210> 30373

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30373

gaggataaac ttgatatcca nanataaana anaaccncgg ccantnnna gaagagggga 60  
gaaggaagat aatggtcacc ccctaggcac tccggggggc aaatagcaaa aaaaacgccc 120  
cctaaaaaaa tccaaccgag gccaccgaa cgtaacgaac gaaacgcgat gaatcgagaa 180

gcaccgaacg tctcgacgac cacatcacac tcaccgtctc aacaccaacg gaagacccca 240  
 accaactcta aaacaccaag acccgcgggc ccattggcca tgacttgaaa ccgagtcata 300  
 acctaataccc ctgtgaggca aagccacaat aagctacccg ctaccaaaaa aaaaaaccca 360  
 ccacgcggaa gacaccgcac tccgaaagag 390

<210> 30374  
 <211> 239  
 <212> DNA  
 <213> Glycine max

<400> 30374

aaccccatgg atcaatgcat atactatacc acaagggtcca tgagtaaaaa atggtctctt 60  
 attttatatg tagatgatat ttactttgca gccagtgaat gggaaagggtg aaacaatttc 120  
 tctctaagaa ttttgacatg aatgatatgg gtcattcttat gtcattggca ttaagattca 180  
 tagagataaa cctcgagtta ttttatgggt atcacaggaa accctattta accaaattt 239

<210> 30375  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30375

ggactttttc tttttctatg aancncanna tngananatc cgncggagggtg aagaggccgc 60  
 ggcanncttt ttcttattaa aanaacaccc agggagggggc gggagacaaa aaaacaaacn 120  
 cgggagaaaa aagccaagaa ccccccaacc gaaaagatag caaaacccaa acacgaggaa 180  
 cgggacggca gaaaaaaaaa aancaacga cnaatagnac aaaacaccna aancgctaca 240  
 agggtaacga aaaaagcaca catgactacc tcaccgcaac gggagaggag cgacaagcga 300  
 acggccaagg aacaacgaca aaccgcaact ttctagttgt tgtatacgag tccaccacca 360  
 tatatagtgg acccgactcc gaatatagcc taaacaattt tatagatagt ctatcattaa 420  
 aactaatata cg 432

<210> 30376  
 <211> 172  
 <212> DNA  
 <213> Glycine max

<400> 30376

aaaaaaaaa aacaattgct cttgcacgta tactatgggg aaaataacta ttagccatat 60  
cgatcccacg aattatatgg catctcaggt taattacatg tggacgacaa aattaaatat 120  
atgaagctga caataaaatt ttctccattt atgggtactg tatttattga at 172

<210> 30377

<211> 284

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30377

atcttttagtg cctatcanac gttgacacgt ggcaatcaaa gctactgcct aacgggtcaac 60  
atccaattgt gacgtcgggg gaccaacatt gcaatttttt ataaaataaa ggaccaatt 120  
cgtgaattaa attatcgng gactaaatgc caaattggac ctaaagtang ggacaaaag 180  
tgccaatttg ccttttattt atatacccn acgaaatang tactactagt tgggtcatat 240  
ttaatgggtca aataatgcta agaagtttac tagcagctta tcat 284

<210> 30378

<211> 195

<212> DNA

<213> Glycine max

<400> 30378

gcaagaattg cagggttaaca tctaactgct ccaagtgaag attctctgca gctactatgc 60  
tcaaaataat tctgatggta gtcattctta caactggaga gaagatctct atgaaatcaa 120  
ttccttgttt tctgtgaaac ctttcacca caagtctcgc cttgtatctt cttttaccgt 180  
cagattcttt cttta 195

<210> 30379

<211> 231

<212> DNA

<213> Glycine max

<400> 30379

cgcaactcag cgcgccaaaa cagcgaaca cacaaaagga ctttctatag caaacgaccg 60



gacaaacagc ggcgcgacga ccagagagca ccaaagggaa ggacacgcag agcccccaag 120  
aagaacacag caggctcaaa aaacaaacca aacaccccaa accaaacaga ggacaagaaa 180  
agggcagaaa aaagctaagt acccgaaacc agagaaccgg caccaacaaa a 231

<210> 30380  
<211> 266  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30380

ncaagctttc tcatagagat ctaggaagga taaagcgggt gaatgaacca attccgctcc 60  
cgaatatgac agcctccatt ntaggagcgc tgagcaccag cagcgcttcg aggccatcaa 120  
gggatggtca tttctccggg agcgacgcgt ccagctcang gacgacgagt ataccactt 180  
tcaggaggag atagtctgcc ggcgttgggc atcactgggt acccccatgg ccaaattcga 240  
cccacacata atcctcgaat ttatgc 266

<210> 30381  
<211> 283  
<212> DNA  
<213> Glycine max

<400> 30381

aagaattcgc caaggactaa ccgtctgaat tcttcttggt tctctcttct cctttttcca 60  
aaagaacaaa ggactaacac gctgaattat tttgtgtctc ctttctcct tgacaaagaa 120  
ttcaaatga cacagtctga gaattctttt gattcttccc tttccgtaat acaaaagtgt 180  
tcaaaggact aaccgcctga gaattctttt gtatcccat tcacaaagta tcacaagctt 240  
aacagcctga gatctttgtc taacacatta gagggtagat tct 283

<210> 30382  
<211> 310  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30382

agctnattat atcgagacga tcaaaattga acaacggaag ctctcgtgaa attaaaatgg 60

tcataagttt taactcggat gtccgattca ngagcttcac atatcgagat gcacganatt 120  
gaacaatgga agctctagag aaattcta atgtcataaat tttcacaccg aggtcctatt 180  
cangcgctta atatatccag acgctcgaaa ttgaacaatg gaagctctcg agatattcaa 240  
atgggtcatta cttttcactc ggatgtccga ttcaagcgta tcacatatcc acacgcttgg 300  
aattgattaa 310

<210> 30383  
<211> 348  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30383

ggattntcta ngctcgagaa gtgaaattta gaatgaggta catntgaagc aaactctcac 60  
ctcacacaag tacaataacat caatctaaac ttgctcanac tggatttaca cctaaaatta 120  
caccgaatnc aaaattgact cctcaacacc caattttgcc ctagaaatgg ctcttggttc 180  
actttgggtca tttgtttttc tctctagcat agcctaacct ttctcataag tcctaaatgg 240  
catttcaagc taggattaac tcattttaac ctccatttac tacagaatcc agatatagcc 300  
tgtcaactct cagagcctga ctctttttcc actcataaca ccacattc 348

<210> 30384  
<211> 309  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30384

agctttcatt gttcaattnc gagcgnncng angtggatatg cgctgaatc tgacctccgt 60  
gtgaaaagtt atgaccattt gaatttctcg agagcttccg ttgttcaatt ttgagtgtct 120  
cgatatatta tacgcctgaa tcggacctcc gagtgaaaca ttatgaccat ttgaaatgct 180  
caagagcttc cattgttcaa tatcgagcga ctcgatttat tatgcgccag aatcggaacct 240  
tttagtgaaa agttatgacc atttgaattt ctcgagagct ctcggtgttc aattttgagc 300  
ggcttgata 309

<210> 30385

<211> 495  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30385

gggcagtcta gtttcttatg ntntcannnc nnnnananta annnaccgnc cgngcannnn 60  
 agaggggagcag aagaggagca cccggttgat tgatattcgc gcacaanana ncgagacgcg 120  
 cgaaagagaa caanggaaac ccncgagcaa nncaaangaa canaacnnnn gcacaaggan 180  
 cgccgagaca ggcaccaaag acaccgagac gcgcgaccaa gaaccacggc agcgcnag 240  
 aaaaaccaag ggacccaaca gcgaacgcgg aggcgcgacg cacgcgcaa agaaancgag 300  
 acgcccgaan acgaacaacg gaagcccgcg agacaaacaa gggggcagaa ccgacccac 360  
 agacgggcca gacaagcgca cagaagagca agaacggccg aaaacgaaca acggaagcac 420  
 gcgggaaagg caaaggacca gaccccaac cagggagccc aaccaaccng caaaacancg 480  
 aaccgggaa agaag 495

<210> 30386  
 <211> 173  
 <212> DNA  
 <213> Glycine max

<400> 30386

agctttgtat gaggtgaag aagctgttc tcgtgttcaa caagatccgg tggagattaa 60  
 tttatctcag cctaatttgt cacaagatag tgacatagag ttgatggtaa atatttgtca 120  
 caagtatagc aatataggag atagttttga tatattacaa gttttattca tgt 173

<210> 30387  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30387

ctcacgtta tacctctcca tgtatcgaat agagactctg attccatang tnggaagcta 60  
 gnnatcctgt ccttgatagc ttgatattc ttatttcgaa cacaattgtt tgaagaagtc 120  
 gtctttgatt ctctcccatg aggttagact atggtgtggt tgagaattga gtcattcacg 180

tgcacttccc cttaatgaan acggaagaaa gtgcatctta atgtggctat ctttgattat 240  
 gagtattctt actaatgtgc atatttggtg gaatcgtgtn aggtgggtat tcagttcttc 300  
 actgctggat cccataaatt gagtgttatg gagagtatta atggccccgc tangaagaat 360  
 tacttgatgt 370

<210> 30388  
 <211> 82  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30388

agcttttata caaaatcctg actcaccata naccttgacc cagagtgaga atgtcaatcc 60  
 ttaccctcgg aagcaaaaaa aa 82

<210> 30389  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30389

tgccaccag ctgcccag cgagctaggt tgcttcttcc ataangcacc gccttctgga 60  
 gaacttcta gaaggcccaa gtgggcctgg gttgctattg caccatgt ntactgaata 120  
 caccctttg cttttttgt tgattctttt tccgtaacgt taaagaatct tacgaattac 180  
 gtaacgatac ttgttttctt ttcgtattgt tatgaaacct tatggatcac gtaatcatcc 240  
 cttttttggc ttccgggatg ttacggaact ttacggattg cgcactaaca cttccttttg 300  
 actttcggca tgtctcgga cttcacgaaa tgcctaacaa t 341

<210> 30390  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30390

ggagtagacc atgtatatca ggnaatcact cgtccccgga tccctagagt caacctgcag 60  
 gcttgcaacc tggcttggtt tggagcttct attggaggct gggatctggt gaggcttcaa 120

tgaggtcctt ctaatggtga tttccacca tggagatgca gcggaagaca naggaaaaga 180  
 agtgagatga ngcgccatcc actanggaat aagccatgga agaaggagct tcaccaccaa 240  
 gatgagcctt ggataagaag cttggagaga atgcttcaat ggaggaaaag aaagaggag 300  
 agaaagagag agggggggagc acgaaattga agggataaaa gaggagagaa gtggactttg 360  
 aatatgttca caagatctaa ttctcaaagt acataaatgt acacatgctc ttttatagac 420  
 ttggacttct ttaaaactn 439

<210> 30391  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30391

aatgacgagt atgtgtaatt gtaataagct ccttagttga tattctagtc ataataagga 60  
 tgcgtgctnt aaagttttac aatgcttgaa tntgtgtgat aatcttgaat atgcatttca 120  
 acttactcat ttaactttta taatattgat ccatgggttaa ggattgaaat ctttcgaaac 180  
 atgttttgga aaataacttaa gtttttatcc cgcatacanat aattgattat atgatgatat 240  
 aattgattat cttgatgatg atgcctttgt ttttcataat tgagaaagac tcanaattag 300  
 tctattatct tgagtgaata attaattata tggaattgaa acaaatttta ctatcacaga 360  
 taattaatta tatgatgata taattgatta tatg 394

<210> 30392  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30392

aggagagagt anncttcgtt actactccgc gatttcgagc tcggcccccg ggttccttat 60  
 aaggcgacct tgaggcttcc aacnntttta atctttcctc ctgactactg gctctggctt 120  
 tttctcctat caaatcatac gcactgtgag ttgaatatct gccctctgga tctgtaagac 180  
 cactcccaag tatctgaacc cttgttgtgg attttatctt ctgcaatata tttgagaaag 240  
 ttagccgcta aggtgatctt attgtcaaac aaggctcttc ttcaagcaaa gttccattcc 300

caccccatgc cttgataccc ttccatggat cttatgaatt gatgcttggt caatgagaac 360  
 tgataaagtc taggttcttc tttggcattg acccaaatg aaatgatgcc gaattgaggc 420  
 accctcattc ctttgatata ttagatttaa n 451

<210> 30393  
 <211> 339  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30393

atatatatta gaggatttgt atataaatat gtaaaaatat ataaaaatca ttatccaaat 60  
 taatatatat tcaaatgatt ntatattcac acatgtcttg cattatgtta atttatgcaa 120  
 acatannttg aaaattatta tctttataag catattcgca tttgcatatg acttttatat 180  
 atatatatat ataattttaa taagaaaatt agtaataaaa aatatattac attntgtaat 240  
 tattagtnt atactcctat catcataagg gggaaaagta tactactaaa ataaaacttt 300  
 aaattttattg ggtttatact catatcatca agtgtacta 339

<210> 30394  
 <211> 359  
 <212> DNA  
 <213> Glycine max  
 <400> 30394

accttttttaa ttgcggctct ggaaaacaaa ggtcaggggt cgcgaatatg tgaaaatgag 60  
 gttccaagta cttcggattt ggtccgacca tgccctctg atttccagct gggaaattgg 120  
 cgagtggagg aacgccccgg cgtttacgca acaagcataa tggtaacctt tacgggttta 180  
 aaagctctat agttgggcct aggccttaga gttttctttt tggttaaagct ttgtgtcttt 240  
 tggttttgaa ttataatac aaggatcttt cttcatctgt tcttggtctc taccattct 300  
 cattcatttg catggttact tctttttctg aaaccgcaga ttcgatgacg agtcccccg 359

<210> 30395  
 <211> 257  
 <212> DNA  
 <213> Glycine max

<400> 30395

gacatcaacc ggtccataga gtgtaaggag tatccacaag gcgcttctgg caacgacaag 60

aggatgttgc agaggttgga aactagtttc tttctaagtg ggggtatcat gatggacctc 120

attggaacct tgtggccttg gatcttcttc atcaatggaa gtccttgctt cttgaattta 180

atggcagcaa aatggaaaag aagaagagtt gagaggagac accacttcaa ggagaagatg 240

agtctagaag aagctca 257

<210> 30396

<211> 332

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30396

agctaatacc agtatccaga ttaagtggaa aacacgttcc aaaggtggag aatggaaatg 60

gccttctctca aaaaacctaa tttcaaccaa atatgagttt aatttttcga caatatgctt 120

attaaatcat ttaagaaagc tngaactagc tatgcttcaa atggaatcta aacacaagtt 180

cttcaaaaaca aatctaaaac atgataatag aaatcaatga agtcacaagt gaaattaaaa 240

agctaacaat agaaaaaata tattgaatca caaattctta tatagttata caaatcaaag 300

ctcattggaa aagaagaaag aaagaagaga aa 332

<210> 30397

<211> 476

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30397

nnaaacggaa cttttagttt ctacncatta aacacaagcc gaaagactan ctgctccatt 60

tacataaaca accaaaccac ttggttatat ttccgcatca tatggataga cctggacagt 120

gtatcatcag cagtaaaatc ccagcaaata atatattcaa tcctaattatt aaccggatta 180

ctgcactact tttctttcac aaaaatggaa aaattaccct ctcccatggt aaagttcgaa 240

atgagntac attagggcaa gtgttgccag actacttatg tatcgaggca agcaccttcc 300

caatggtgca gtgttgctta aggcaagcat atttgtcacc taatctacan ggcaacacng 360

aagatgtaaa ggcatactg cttctataaa ccatagtagg tccttgtaa tgcctcaca 420  
gacctgagat agttacacct tacggcataa caaggctatc aatctttaca gacctn 476

<210> 30398  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30398

aaaaacacgg ggcgttgtaa tnctacgnaa tananaaagg ccncggggag acccaaaggc 60  
gaccagcagg aagcgcaaca ntttttttta ccaaaggnc aaaccacag gggcgggggg 120  
agangcangc cacccaacgg aagacacaca cgaagaaca gggccatgaa caccgggaag 180  
aacatccagt gcatcaagat ggccaacgtg acgaaacaaa gacgcaagga aagcccccg 240  
ggaacaagcc aaggaacaag ccggaacgcc ggaactgcat gaccaggata tagacggaca 300  
aaggaacata cctaggagaa aagagacca ccacgcaagt cgcaccattg gaaagaagtc 360  
caaacaaggc ggcgaaaatg gaccaacaaa caggaaacca actgggcccg ggaaggggag 420  
caagaaaaca catccaagg 439

<210> 30399  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30399

aataggtttt agtttctanc tnataananc ngccacgcga cgggagaaaa ccccaccct 60  
tgtttttacc acacnaacag gggggggtgc acggccacc agaggggaaa ccccacgag 120  
caggggnaca ccacacaaag caacgctcaa ccttaaggaa gactgctaca aacgtcgttc 180  
actcattct ccaccaggct tcctatggct ccttcaatgt agtccaccac atccatcctc 240  
cataacaaaa gaggcagctc tcttgccaaa acatgcgaaa ccgagggaaa cacagcctca 300  
tcttttatac ccgtcaatgc gacaatgctt ccattccat cacgatccag tattctacta 360  
actgcttacg gaacttgcca aaacaccgca tatgcaatag ccttn 405

<210> 30400



<211> 350  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30400

ccccggggta ccttagagac ccaggcagg agccacgttg gtgancatcc tagacgcaga 60  
tcgggagcta tgcaatgaca ctgaggtgtc tcgctaacgc caataccttc tgatagaaaa 120  
gtatgaatag gcttagcacc ttgctcgcaa acctattctg agaaaaaat ttttcggtct 180  
cgactctcgc gggatatcgc actgacccat gactacagat tataagcgc tcatgccttg 240  
tcgcgctcac gccagtctat tctagtggat actgctttct tttgataatc tgaaatctgt 300  
ctagctcaat ggatacaatg gtcctgaaga ggagggcact tcctaccccg 350

<210> 30401  
<211> 485  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30401

ggcctccttt taccttcnga ccgtgaacct agannacnaa cccacgcttg aatgactggg 60  
atgtctgagt atggccagcg actttcattc atctcttgcg gcagcnggaa cagggcgggt 120  
cttagtaata atatgctctc actacagacc aactgtgaa cgggcactnc tattactcat 180  
gatcatgcat ccgagatgag ctcaagggtg tgaatccgca cacagcttgc tcattgtaaa 240  
tgtgtgcaag aatatcttga tccttataaa cgaaacgagc atnattctat aaaagtagag 300  
aatgtatgta gaagtgcctc tgtttataaa tcaccgcatt gaataacaat gaatattcac 360  
ttgttggtgca taatttaaata gacacacaat atctaaatgt gatgcagtac tcacacgcta 420  
taacataata gntttgtgac cctccccag cgacaatgtt cccgcgacct gacaggatgt 480  
gccct 485

<210> 30402  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30402

ncccccttga tgcttgatac cacggcgatt tcagctcgca cccgggatcc tcagagtcga 60  
 cctgcggcat gcaagcnttt tatccaaagc tcattctggg ggngaagctc cttttttcat 120  
 ggcttattcc ttatggnatg gcgccctcct ctcaccttta tcctttgtct tccccctgcat 180  
 ctncatggtg'gaaaatcacc attaaaggac cccatttgaa gctcaaagat ccagcctnca 240  
 tagaagcccc acaagcaagc ttccatcagt aattntccca gagtgtacag gatagcacct 300  
 gtccactatc agaaggaaac aacaattaat gtatcaatat atcagcaact aatcatcatc 360  
 agatacaaac aacaatcaca ccccctcaat taattgtaaa gaatacctca aatccttaaa 420  
 tcaaacaccc tcgatttttg 440

<210> 30403  
 <211> 432  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30403

tatgtataat ttttgaaggt acagatgtag aacgtttaat tagtttantt aacaaaaagn 60  
 aaacaacatt tctagcattt gatgagaatg aaatgggata tactacaact tgcacatgtg 120  
 taaatttatt cataatagta tattggaaaa tcatgagttg cttgtagcat tcaaagaagg 180  
 agatcaaagc aatattttgc gattatgaaa gccccaaaag tttggggcctt agaaatatgt 240  
 agtgcgatat tgtgattttg tntgagatta gtggaggcta gtgatattga aggttgggca 300  
 acatatgtgt tacacgagaa attgaaattt aaatataaaa aatagtcgaa aatatganat 360  
 aaagaacaac tttggaatgt angaaaaggc tgcataaatt gaaagaacaa attatataat 420  
 ggtattgtag tg 432

<210> 30404  
 <211> 322  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30404

agctttcntt caacgaagag aagagaaaga cgggagattg cggaaataca agnagaaggg 60  
 atgtctcctc cacctctagg acctcacaat cactcacaaa ctcactctcaa gctctcaaga 120

cggttcctc ttcaagctct ggtctctgct aatcttcaca caacaaaatc tctcaaactc 180  
 tttggaactt ggacctttct ctctctataa ctaaagacat gccagagctc ctcaagaaaa 240  
 atggccaaac tccatctcta aatctgattt tatgcttaaa taggtggctt tgattgtgct 300  
 catgcgctta atgcaactct ga 322

<210> 30405  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30405

tttgtgctag tgtgcttagc gtgactatgg accgctcagc tcacattagt ggattttggc 60  
 ttagtgcgcg ctattctcgc tcaactggatg gactgaagcg gngcgcttag cgggatgacc 120  
 cttegtctca tgcaaatgca caactcattc ttgctctaga ttcttcctcg cactcagctg 180  
 aggagtgatg cgctcatcgg atggctcgct aagccagaag attggcttat cgagcggatg 240  
 aaaatcaaca cttcacgaac ttgcctagat aactttgaaa tgagaggaaa tggttattaa 300  
 acacacaaga tgggagttc 319

<210> 30406  
 <211> 103  
 <212> DNA  
 <213> Glycine max

<400> 30406

tcgcgaccaa tttcttgttt gacatcttaa tcttgaattc tggcattcat ccactaatat 60  
 cacatatact cgcgaccac catgcgtgag aggtctctat ccg 103

<210> 30407  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30407

atggtttctt ctaccctact cctatcgact agtggagcca gtccaagtga tagaggtgtc 60  
 atcctctgaa gaggatcctg aggaggacct anaggagtta cctcctgagc ctgctgtgga 120

tgctcttgac cttccagagg atgatgagga cccacttcct gatgtggatt ctccagagga 180  
 tatcttgtca gcatttgaga cagactctac agaggagagc ggccctggag ggatagcgaa 240  
 cagtgaagac ttttcatcat agcagacgac tccttagact aggcttacat actttttgtg 300  
 cgtgggtgta tctaagtcag actgctangg ttactctttt gatttttggg tgg 353

<210> 30408  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30408

ccacagcaga acaattatga cttttccagc aacagataca accctggatg gaggaatcac 60  
 cctaacctca gatggtctag ctctcagcaa caacagcaac ctgctccttc cttccaaaat 120  
 gctgctggcc caagcagacc atacattcct ccaccaatcc aacaacagca acaaccccag 180  
 aaacagccaa cagttgaggc cctccacaa ccttcctcgc aagaacttgt gaggcaaagt 240  
 actatgcaga acatgcagtt tcagcaagag accagagcct ncattcagag cttaaccaat 300  
 cagatgggac aattggctac ccaattgaat caacaacagt cccagaattc tgacaagctg 360  
 cctttctcaag ct 372

<210> 30409  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30409

cgccccgtgg gcttgacnta cagcgaatna ggaacccccg cgggatccaa ggagcgacca 60  
 gacggaggca tttttttaag cgcggaaccc ggcgcaacgc ggggtgcatc ccggcatgat 120  
 gctcactccc ttgggcgcgc cagtatgaaa tacaagcgac caatgctagg ccggacaccg 180  
 ggaatatccg gacataagac atgcaccgtg cctaaggaaa tggcttccca aaagcccaca 240  
 agctgagccc aaaaaggacg cccagaaaca agagacccaa cgcaacctgc agcagagAAC 300  
 aaaaagaaac gtacatgact ctccaaatgc caatcagaac agaaagacgg ccaacgattg 360  
 ccaaaccgtc caaatagcgc gtgctatgaa acaaaaaacg ctggataaaa aaacaccccc 420

agcgaatgg

429

<210> 30410  
<211> 511  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30410

nnttatttgg ggaaattccc channngntnn nntntnnnnn ntningcnaa cngnccnag 60  
aggantgaag gacgaggaga ggagacgagc gtttacttag ngttcgacgc cnacnagnen 120  
ccaacacagg catggcggct angagcacc naaacacngc aacatccacg ggccacagaa 180  
gggacaccgc cgcgagctcc accgccacat ttgacgaca tcgtctttgg agactggaga 240  
tacgcaggac aaacacggta tttgaagggc ccatgggtta cagttgccct ctgagaagga 300  
gacatgatcc acacgtcagt cttatgggac gacgcccctt attctgacgg tcagacatga 360  
acctggatat ctgatcact caactgactg atgcacataa ataccgtaat aaaattcctt 420  
caacagcacg tgggacggaa aaagtataga ccgtagcat cgacaatgtc ctcacattgc 480  
ggtgatggag ccagaccacc atcgctctt g 511

<210> 30411  
<211> 308  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30411

agctttttga ccatgcaaac actaaggctt agggttcggt tcccccttcc aatcaaccca 60  
atgtttccaa aaaatgctcc tttaccaagt catgcataca tccaagtnca tttangcatt 120  
tcgggaaaac ctttcattgc gttcaccctt taagcgcaca ttcttttttc ttcaaaaacc 180  
tttttgtgtt atgatccggg aattttccaa agaaaactgg cggtcattct ttttaaaaac 240  
atgttggcct ttttagtttt cttccctta gcttttttcc ttttcaataa tttctttcaa 300  
gcaaaaac 308

<210> 30412  
<211> 495

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30412

nnnaaatcga gatcgacngc cttagtagcnn nctgnganaa tttagannac tcaccctngt 60  
 ccacaaanaa tcaactaaaaa tggnnnattg tctaacttct taaacggnc ctttttgctt 120  
 tatgcgggta acatggaccg ttcaaaagca taaaatcaac acatcacttt actacctttc 180  
 gcgagaacta cgtangtctg atttctctt cgatggagga tacataagag caaaaagtcc 240  
 ctttttgctg acctgtgag atgggttagag gtccaatgcc ttaaattttt tcaccaagta 300  
 aaatggatca ttttaaggtc caatgcctta aatgaccacc ttccaagtaa aaagaatcac 360  
 ttgattcgcc ctttttgcaa gaactacgta ngcttgattt cctcatcgca attgaggata 420  
 cccngagcaa aaaccccgct tttgtcacca cccaagaga actgtatggt ccaaccctta 480  
 tcgttctctc ttttn 495

<210> 30413  
 <211> 344  
 <212> DNA  
 <213> Glycine max  
 <400> 30413

atatattacc caatttaatc ggacatccga gtaaaaagtt attgtcggtt gaatttccta 60  
 cgagcttccg tgttcaattt caacgcctcg atatattaca agactcaacc ggaaattcgc 120  
 gtgttaaggt attggcaatt caattttctc agaactttgg atctaaattt tgagcgtctc 180  
 gatattattac cggactcaac cagacatctg tgtataaaag tattggcatt tcaatttgct 240  
 cacagcttct aatctcacat ttggagcctt ctcatatatt aacccgatcc atcgaccatc 300  
 cgagaaaaag aattgtcggt gaaaattcta caaccttccg ttcg 344

<210> 30414  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30414

tctggtggga catcttgact tgctttccaa tcngacattc tctacagatt ctgccttcnn 60

ctatnntcag agggggaatg cctctaacag cacctttgtc aatgattttc ttcacgcctc 120  
 ttaagtgcag atgtccaaat atttgatgcc atattttgac ttcaccttct ttggagaata 180  
 gacatgtgga ggagtaactg gtttcttgag gtgtccatag gtaacagttg tcctttgatc 240  
 tgctgccctt cattaggact tcactcttct catttgtcac caagcattct gactntgtga 300  
 agtttacatt gaatccttca tcacacaact gactgatgct gatcaagttc gcagtcagtc 360  
 ccttcaccag cagtactttg ttcagactan gaagtccatc atggactagc tttcccattc 420  
 cagtgatctt tca 433

<210> 30415  
 <211> 151  
 <212> DNA  
 <213> Glycine max

<400> 30415  
 actccatttt tatatattac aattattcat gtctgacatt tgcacgtagg gccctgcaac 60  
 tattgttcca ccaatagcta ggaataagct aaccataaca agagccatac caaggaaggt 120  
 tgttgattaa gatgatgccg tataaagaaa a 151

<210> 30416  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 30416  
 ttgcgactag aatcaccaat agaaccccag cgcaagcgga aagcagaaat tgtacgtgaa 60  
 aaaccaccg agcgcgggcg gacgaacacg aacccacccc gagaagaatc ggccaaagga 120  
 aaaccggtca tccacagact ggatacctgc gtcacgggaa acagaccttc aacggggaag 180  
 aacctcgaac caagcaattc gacacattcc aggcgcccgc agaggccac aaagaggtac 240  
 gtgcattgcg agacacagcg ggtagaaccg aaagaccccc cagatgacga gaccaaacca 300  
 ggccactaag gcacccttgg caacataaga aaaaaaatt acaccgaacg gtgaacgacc 360  
 aacataacac ggaaaaaaaa atccgacggc ggcgggcgaa acgctcggaa aaaaagacga 420  
 aaac 425

<210> 30417  
 <211> 286  
 <212> DNA  
 <213> Glycine max

<400> 30417

agcttattgt attaagtgaa atagaggatg ataacggtgt gataatccca aggaagtgaa 60  
 aagcgaaaca agaagaacca aagaggtaga ggcctgatca accaattatc acatcctctt 120  
 ttccaaagaa gagaaagata agacctagat gcaagttctt aaccctaaag gaaccatta 180  
 agatcccatc cttcattgtc tcttggtcgt ctgatagtga ggcaactcca actcccaata 240  
 cacatccatt cagtccacca ccagtgtaga ccaagaagcc tacata 286

<210> 30418  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30418

nggcagactt cttcatgcag tatcngacct catnaatact aagcttacct ttttaaggcca 60  
 aaccattcac cttgggggtgg caccatgtta tttggttttg caccaanagg tgggaaagga 120  
 tgggtccatca tgtgcttgta ggtgtacgat aggtaactca aataacctta ggtaaaaaaa 180  
 tgcccttggt tatttggggg tagcaaaaat actttcttgg aaaataatng aatggatgta 240  
 tatattgcgt gtagggtagc aaaaatgctc ataatgtat atattgcatg ataggtagcc 300  
 aaaaaccttg tggattaatt aactacgtag cacagtaccc tattatttaa gtaattaaat 360  
 actttgtggg tttagttaag ataggaacaa aatgcctcta caatgtatta tttttgcan 420  
 agaaatgcct cacaaactta tatgtattga tgtaggtagc aaaaccttgc aattaattt 479

<210> 30419  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30419

ttccaacctt ttttgtgaat tgaggatgga cccctaactt ggggtttgaa taaaaaattt 60  
 taaaatttaa ggaaattaaa aatgcctaga attaaatttg tttgatttta atttctttca 120



tttttcaa at gcttttggtg gataaatcaa ttcaaatttc atcaattnta aattccttgt 180  
 ttggataagg caattcaatt ttctccatat gcaaattntc aattttatat tntanataga 240  
 tgaaatttta atattaaact ttatagaaaa caaacacatc tattttgaaa tattaattaa 300  
 aaatattttc atttttaata tttaaaatac taatattgat attt 344

<210> 30420  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30420

actaagctgc tgagtgaagc cccagccttg cctggaaccc ttttgctacc tccttccttn 60  
 ncccatnccc ctgtagaat tggcattttt aatagtgggt taatgtaagt atgcatgtat 120  
 tcattgaact tggagaanaa tagggtaatt aagccgttgc taccatatgg ctttgaaagt 180  
 tgaacttaat atgctgtgtc ttggatatat gttggttggg tgttgcatgt cttcgtaaat 240  
 tgaccaa atg ttgtggttgt gtgctgtctt cttatatatg attccttgagg gatatgagan 300  
 aaaagatgga aattttcaatt tcaattacta gtgtcttaga ctctatcatt gagtctatac 360  
 tgagagatga cttagtgtat ttatattaat cccat 395

<210> 30421  
 <211> 472  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30421

aggggagctg taaccttttg taaaacaang ncgattncga gcncgncccc cgnggannc 60  
 ctaaagngga cctgcaggca ggcaaccctt ttttttacac tncaaccang cennngcgcg 120  
 cgacgagtgc tacagncttc attccttctt tcactttggg tccttccttc ttcttacaca 180  
 aattttgttg gtcttccact gatgatgac atggaaggct aaacactcaa tcaatccaag 240  
 gatccactcc aagaaagggt gaatntgagc tctggttag tatttcaatt acgtgtgaat 300  
 gtacatcttt ttcttcaatc atatttttta ttttcatgat tatgaatatg cttaggattg 360  
 aaaacaaaat taagctatgg aatcattgtg taatctgaaa tctaatacaca gaatgtttgg 420

acgatattcc aacctaattt ggcacctcaa tgaattaagg attaatccaa cg

472

<210> 30422  
<211> 397  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30422

gccgtatann gttttngacn tcnnnnntag nnacnnccaa gnnnnntttt gaagaccccn 60  
ttttttgtta aacccaccca ctttccgggg atactcacia atctcccctt gaattgataa 120  
agctttctaa agaaattgat actctgtagt cctgaattat cctattcctt ccccttgagg 180  
taacaaaagc caaggcgtat agatttgagg atcataataa ctaacgtcat acacattgtg 240  
gagaactata accaatcatg aaccggaccg tgagccacat cataatagat atctctatat 300  
accataggcg aaacatatta attttgtcca catccatgca atatggaaat taaatgaaaa 360  
tccatatatt agccaataca tgctaaatca tgtctag 397

<210> 30423  
<211> 465  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30423

aaattatttt gcttgatctt aaagcaattc agcccggacc cgcgagatcc tatagaggac 60  
gacctgcgcg cgcgcacacn nttttttcca nagcacctc tcgagaggag aagccaactt 120  
cttatcatag ctccatactc taaatagatg ggtgcctccg tctgatggca aacctactcc 180  
catactcggc tattggatat aatgactccc aagtagagat gggacacagc tagaacgaga 240  
atgccactaa ggttctcatg agcccttacg agagatttcg ggcccaaggg ctaagtatga 300  
gccacttat ctgtggccat acgagatcaa gggttaaata tatctgggcc tcggatttac 360  
ggctacatta tgtacgcaag gtacccttg aaagtaagaa acctcaacca cttgatatac 420  
ggcccctaga acagaggtcc gatatgggta caacgaacaa tcccg 465

<210> 30424  
<211> 484

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30424

ggcgtttggc ttttngttct aanctngtta anaacnangc ggggacaaag gacagggccc 60  
cgtcaacaca tttgcttggt gtgcacncnc aannnccggg aggggacgcc gcgnacacac 120  
ccncacacac caagnaccan cngcccgnna agggcgncag cccacaaatc cactgaaaca 180  
aagactcgag cggccatctc anggatacca tgtgatatga gaaatgcctt tttcgtgggt 240  
agtgttccta cgtaacagtt gaacctagtt ctgcagccct ccatatttaa cacacttatt 300  
gagaagatct accgtctgct catcgttggg aaaggatgat aggagaagtc atcaattcac 360  
atcctgtaat ctgatttggt aataaaaacta ataaattact atattctaac taatacaaca 420  
atattattcg agattatcat gcttctctct tgcggttcaa tggcataaaa tccgcttgct 480  
cccg 484

<210> 30425  
<211> 324  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30425

agctttttat ctttcattgg tgtantttta tccgcttttg gtgctctaaa ttgtgggaat 60  
gtgctcanat atgtggtgca attttggttt gttttcttgc ttgattgggt tgaattgngg 120  
gtttgtatga gatggcccta tgcctataat gcattttgaa gcaatgggac atgccacatt 180  
gtccccgttc tcttgctatt aatgcctaaa cgcgcgccca ccaagtgttc ggtgaaatgc 240  
ctcaatggca ttaacgcgtg attttcctan ggaaacaacc catggggcat tttggtttcc 300  
acatattttc tatttttttg gaca 324

<210> 30426  
<211> 369  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30426

acccctgtg	cctccgttt	gatttaagcc	aagccctac	ttttgagggg	caactcctac	60
cttatgaaga	ctatcccggg	caagacgatg	gngaaggaga	taccatctt	ggccccctgc	120
tccacctcan	agatccatcc	ccgcataaac	tacccagct	gaacatagtc	cgccatatcc	180
cggcctcatc	cgcaccogta	aaagaatcta	ttccctttgc	ggaagataag	ggaaagattg	240
aagcgctcga	agagaggtta	agagcagtcg	agggcctcgg	taattacca	ttctcagatt	300
tggcagatnt	atgtcttatg	ccaacatcg	tcaccccttc	caaattcaaa	gtactagact	360
nntgatagt						369

agctttttaga	ggatgcttta	atgaaggana	agaaagagag	atagtgggag	cacgaaatgg	60
aaggaatata	agaggggagag	aagtgggaact	ttgaagtgtc	tcataagact	ttcattcatc	120
aaagttacaa	caagtgttac	acatgcttct	atttatagac	tangtagctt	ccttgagaag	180
ctntcttgag	aaaacttcct	ttataagcta	aagcttagct	acacacacnc	cctcttaaag	240
ctaagctcac	cttcttgaga	agcttncttg	agaaactaga	gcttagctac	acacacc	297

nnntttactt	ttngcttgat	antgcggcca	ctctatagan	taccctcgct	nggtgaaatg	60
ccacattcat	ggtcattgtc	ggagnaaatg	catganttat	aaatcttggc	catatgcnc	120
gacgctgtc	tcgtagaagc	atatccattg	ggatataatg	atgaaactat	gtgcatntt	180
caggtagaga	aagacggcta	gagttttgaa	ttgccacaaa	gtagcagggt	ccggctaagc	240
gcatatacat	cactatgcgc	gagatcagtg	cgctaagcgc	aggatgtgcc	ttcagccaat	300
gtaagctcga	gactggcgct	aagcccaatt	tcacttactt	gcgctgagcg	ngagggtggc	360

gcttagcgca gcgtcacgag ttcagagcct atntaaagcc tgtcttgtgc agaatagggt 420  
acacaccttt tatgtcatct tctacacact tgtcacgacg accagggcac agaattcata 480  
gcccgcatatc ggctatttgg agaaaaagcg 510

<210> 30429  
<211> 173  
<212> DNA  
<213> Glycine max

<400> 30429

agctttttgtt agatgccccca gctaccggaa aaagcggcct tgacgactcc aagagaggct 60  
atagagacat tgaaaatccg acctctaatt ctgatgaatt tctaaatgat agaattcatgg 120  
ctccgtcttg aagactattg acagtccata ctcaagatgg tctcttagcc caa 173

<210> 30430  
<211> 459  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30430

nccttaccag ggttagnagc tgtgctgcgc ctctatagan taccctgcct gagactgggg 60  
cgaaggccca ttgccgttac cncngcttat tcaacttttcg gagaccacaaa ccctattgag 120  
agtctatctt gtgcagaatt aggggaaccac ctttaccact tttatgacaa cttctacaga 180  
caaccagggc ccagaagttt gaaagcagcc accggcctat tgggggaaaa gagccctaga 240  
agcagatata tgagcagcct gtgcattgaa gcctacgttt tgcattctga aaaaatattg 300  
gtagagagga ctgtatatgc tgataaagga ggggaatccc cttcttggaa aggactatca 360  
tctttgtttt atctattatt gtaagggttt tgtatggtcg ctaacaccct atgacgattg 420  
ctatgacact aatgaaacct atatctatga tgggtcatg 459

<210> 30431  
<211> 361  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30431

agctgtgtta ctcccagaag actgnaagng tgctactggt gcaatttggt ttaactgtta 60  
atcaatttgt gttttatgcg ttgataaata aatataaata atggataaca tttctcaatg 120  
atctttagt gcccttggtt tgctgtgtag ctttattatc cactggctag tacaaaaaca 180  
ccatcttgca tgcattgctt gatgggcgt ggcaacatta attttataaa cctatttcta 240  
gttaaaatta attctaaagt gatatgatgt atatttaa atttttatta taaaactaag 300  
aagctaagt tataaaactc aattaattct ggacgtacac aatcaatttt aaactctttt 360  
a 361

<210> 30432  
<211> 228  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30432

tttttataaa aaaaaaacccg gaaaaggaat tataaaaggg aaatgaaaga tataaattaa 60  
tagagaaagt tgggtggttg ccattagaat taaaaggga ttttgagat tntattttat 120  
tttttggaa ttgaaaaaat taaaaaacat tggttaaaaa aaaagttaac gaaatcaaat 180  
gataatattt acggagaggc aatgcgattt ttgatatag ccttatct 228

<210> 30433  
<211> 403  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30433

agggagtacg atgtatctcc gnatttataaa gncccgggac ttaagggacc tctggaggcc 60  
cgtttgatcc anccgaaaaa acgggcgtgt atgagaaact cgacataccc acacggcaag 120  
caaccatgaa tggcaacatg ggtcccagaa tatacttgaa agccggtgga tagagtccac 180  
cgcacataca gcccaggga gttactaac aagccacgct atgacacgaa gcaatggtat 240  
ttatgacaaa acaccctgcc tctactatgt tagcgaaatt cctgatgtcc ttatcgcaag 300  
atgatccgta aggtacagcg caagagacat taggtttcct aatacacaat aagtgggagc 360  
gccctcaatt cgtaaggagg acagttggtg gcacattatt tcc 403

<210> 30434  
 <211> 490  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30434  
  
 nttcttttnn ggatccccnn gntgcntcgn gtnanttana cnaccncact cttgcgagcg 60  
 agctgttgag acacacacaa ccggttagtc agtttttgac accccaggcg ccaggaggag 120  
 agcgcaacac caaaggagac aagacacacn caggcccgac gaaggggaag gagatagcgc 180  
 tcgcggcacc cgggtccacg agcacaaaga gcggccgggc gaggagcaca gaagaacaga 240  
 gccgcgcaa aactcgacgc tccgcccccg aagaaaaatc catcgcgga gacacaccac 300  
 agggaggggac tcacgcggat cgccagacga tagtaacaac tgtgacgac gccctaacca 360  
 tgatgacaaa cgtecccccg agatcaagtc ccatcaccat cggaacgaca aggaatcagc 420  
 tgtgaacaac tggacctaca aatggccgac atgaaacata cagctctata cgatgagaga 480  
 cacatgcggg 490

<210> 30435  
 <211> 238  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30435  
  
 agcttttagc caaaatcctg actcaccata aaccttgacc cagggtgaga atgtcaatcc 60  
 ttaccctcgg aagcgaanag aatagaaggg aaatttccaa tcaaagaaaa ggaaagaagg 120  
 aagatttcca atcaaagaga aagccaaaaa agaaaagatt gaaaattccc aatcaaagag 180  
 tgggagaaag caaaaagata agaaagaaaa ttcccaatca aagaatggga gaaagtaa 238

<210> 30436  
 <211> 220  
 <212> DNA  
 <213> Glycine max  
  
 <400> 30436  
  
 tgccaactca tatgagggat aaacacataa gatcagtcct gagaaaaaat gtatcattac 60

tgatacacac caatccatgt catgaaaaga aatgtatacg gatatactat caaatatgat 120  
 tgcattccaa tttatacaaa tgggtgtgtt tcttttgata tatgaaagaa actttgatca 180  
 cgctttctgg atctacaatc agatggacgg tataaaactta 220

<210> 30437  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30437

agcttggttat tatccaaatt ctcagagata ttactcacca tgagaatgag atcactntta 60  
 ataacttcat cttgggttaat ttcacatca atttgtaata ttgatcccat aatatactta 120  
 aaaactgggtg gtatgatatc cacccaacag tcacacaatg tttttttact agtaattctg 180  
 tcaatgatat gagcaattnt tcttattaga atagaccttg actctactat tatagcgaaa 240  
 tttctgtaat ttcttttcaa aatatgaacc taaattaaaa gagaaagaaa aaataaatat 300  
 atttattata caaaaa 316

<210> 30438  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30438

tgttcgcaca tcgttcgcgt gtatgatatt cactccacaa ttttttaata taagaaaacc 60  
 ttcaatccta taacgcacgt ggcgacaaaa tgggcataac tgaatggcat tattgcaatg 120  
 cggaagggtat tctgcgcttc actatccatg ttcacacatt atngcagctt gtggttacgt 180  
 gagcatgaac tactaccaat atatagatgt tgtttacacg aatgagcaca tcttaaaagc 240  
 atactccgca cagtgggtggc ctcttgggaa tgaagcggca attcctcctt ctgatgaggc 300  
 atggacatta atccctgacc caactacaat tcgtgcaaaa ggtcggccaa aatcaacaag 360  
 gataaggaat gagatggatt gngtcgaacc atctgaccac cgacanaaat gtagtagatg 420  
 tgga 424

<210> 30439



<211> 350  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30439  
  
 accttatcta ggttggacct cggctggagt tgaatacgta aggctggagt ttggctcatt 60  
 gcctgtcata ggtttttntt aaagctcggc tcggtttaca taaaagtctg gctttgccca 120  
 cgagcctatt taaaaacttg cttaaagacg tctttgatta attaattatt ttaaaatcta 180  
 gtgaaatact aacttaaaaa agaaacttat aaaatttcgt ataagcaatg taaaaattca 240  
 aaaataattg gataacaaaa tcatattgaa ttcaagtcgt taaagtacaa agtatatcaa 300  
 aagaaaataa aaagagcata atattaataa atgtatggat tagagatgat 350

<210> 30440  
 <211> 233  
 <212> DNA  
 <213> Glycine max  
  
 <400> 30440  
  
 gactgatcgt tgccctttct ctgcgctaaa caaacagaga acgtcgctgc aagacagccc 60  
 cgtatccttt gtattcgcag gtttctttta ctaatttggt ggcttaaaaa gaaaattata 120  
 ataaataata agtcgacgcc taaattctaa cttaagtaag ttcaagttag gcaagacgct 180  
 aacccatgag aaaggagggg acatgggttaa tgttcccctt cagaaaaaaaa aat 233

<210> 30441  
 <211> 286  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30441  
  
 aataactatt ttaaaatgat aatttagaca aaaaattaac aaaatcattt ggattatctc 60  
 ccaatctcac ctaatacata cttcaggcgg tagctgcgtt gggatggact gtgaatatat 120  
 agtccgtgcc tgcgtaaata agattgcccg tggccttcct ttagctacgg gcganacagt 180  
 tttatggtgt taacctttct attatcccat cccaaatgct tagacattta agacaagccg 240  
 atctacatat taggaaaata acaaattgtca tcatcataaa aaaaaa 286

<210> 30442  
 <211> 439  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30442  
  
 nggagtgtgt tcatgagaac gcaccaana aactcagcct ngctgtgagt cccagaaga 60  
 ttttaattggc gaccatttat tattttttaa ggaccataaa aaatgtagga gtctatcttt 120  
 caatcttctc tcaacatcat tcaatatctt tcaactgttt ctacaaaaat atcttgaatc 180  
 attcctcttc atcttcctaa aagtcttggt tcaacacttt cttttccaaa acaagtcttt 240  
 gtcaaaaact cgtgctatca tatttttcatt ctctgtcttct ttcccaaaga caaagactaa 300  
 ccgctgattc tttgtgctct ctcttcttac aaagatcaag gacaaccgct gaaatctttg 360  
 ttcttctctc cctagcaaag attcaaagct aaccgctgaa tactttgttc cttacaaga 420  
 ttcaaggata ccgctgaaa 439

<210> 30443  
 <211> 365  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30443  
  
 agctttgttc ttgacanaaa ataacatttt gaatggtgtt aatatatata ccagtttact 60  
 aatgtatata tacttgtttt ttttaatatg agtacgttaa caaattatac ctagatatta 120  
 tcttacaata aaccaataat ataacttatt aacacactta aaatacacca ataataacc 180  
 tagatatttt aattaatata taaatagagt tatattatta ttattaataa atactccaat 240  
 atttctatga taaaagcaca tgcactttga taatgaaaaa ttacctttct tataaaatat 300  
 gatggttcta tgaatctagc atactatgaa taatatataa agttttttta ttcataaata 360  
 tcaaa 365

<210> 30444  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 30444

aacatctgga ccttaggtgc cattttttaga gtaaaatttt aagttaattt tgggggatna 60  
aaaccattct tagagtccaa attaaaaatt aaaaattcaa atcacaattt gtggttgtag 120  
acaaccacca cacacgttcc agggcaaaaa attcaaattg agggcccat tgtggcttaa 180  
acaacgggtg tgcgtggcaa attcaatggt atcactgaca acccatcata gtccccacg 240  
catcttcaag agctttcaat anggacanat ttangctcca aattgcaagt ccacccccgc 300  
aaagccctca ccctacaccc tcacagatct ggttgctgat gtagaggcat ccacggagg 360  
aaaggcagtg gtgcacaatg tcanggttga gccataaag gatgtggaag gccgacttga 420  
tgaagaggaa gtcacgtca at 442

<210> 30445  
<211> 222  
<212> DNA  
<213> Glycine max

<400> 30445

agcttttaat ttaatacgg acatcaaac agagcagtgc attaccaatt taagtactac 60  
ccaccaccaa gcaaagctat gttgaagata tacttttgta actacataat attttatttt 120  
ttcagttttt acaataggat ttagtaaata agttggtgct ctatatTTTA agagtaagtc 180  
agttctaatt gattagctta gtcaaaaagt ggttcctatc tt 222

<210> 30446  
<211> 209  
<212> DNA  
<213> Glycine max

<400> 30446

ggcccgtat gtaactaggt tctatctact gcaactgcta ttatcccaa tctttattgg 60  
attttatata agcaaatgaa gtgtgaggaa aagtaaaaat tggatcataa agaagaaaaa 120  
attgtgaatt agttgtacat acttttgaat tttgcactat ttacgagtac ttaaagacaa 180  
tattacttat ataatgatta tctaaacag 209

<210> 30447  
<211> 179

<212> DNA  
 <213> Glycine max  
 <400> 30447

ctgagtaggc tgctgtatga gatctctcag aaggactgaa tgcttgggca cagaatctac 60  
 taccatagtg cttggggcaaa gtggaaaccc ccaatccacg gatttggata tgcagcttag 120  
 tggacaagga tagacaatat agctactttc ttttttaata tacctatgtc attattgct 179

<210> 30448  
 <211> 493  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30448

naacaggaat tttagtnant gcgaactata gaaacacaac ccgggggggat atcactcgcg 60  
 ggtacgaacg aaccgcagcg atttgcattt cattcgccac ccactgacga gagcggggtg 120  
 atgaggccaa aagcctgaga gctacggagc ggccccctgcc gtagacacag aaagcaaccc 180  
 ttggagttgc tgatgctgag acaagagcag caactcccac gtcactggaa gcagcactcg 240  
 agcctctaaa ctcagcatga ccagacaaaa cgacgcgcgt caagaccagg agaagagaac 300  
 ctggagcagt gtcatectca gtgagacaag acgaagggga ggtgctgccc gttataagag 360  
 cacgagatgc ctaacgaaac gagacattag aagccacaat gccgacagcg ggggaatgat 420  
 attcatgtgc caagaccaag ttcggagtca acatgtctgg atggaccagc tacgagataa 480  
 cttccctccg cgn 493

<210> 30449  
 <211> 303  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30449

agcttatatg aacaaaattg ccttaatcat tccaaatatg catgtgaatt angacgcac 60  
 aacaagaatc aagccaaggc tattgtgcaa gcaatcaatg gggcaaaaca cacccaatga 120  
 ttataatgat ggatggctca nattctcaca aaggtaaaat catcactttc aaattgagct 180  
 ttcaaaacta tcatgacatg tagagaagaa tcaaggattt caagtcacaa aatgtcaaga 240

actttttat tcaaaacaat tacccatttc ttgaacatat cctataattc aaagaaaaac 300  
atg 303

<210> 30450  
<211> 134  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30450

ntgtcctcag atccattgg tgggactagg ctcaatttag tcggttctcc tatgnntaga 60  
ctaacttana ctaagcttca tctcagatc ccatttggtg gactagactt agcttaaata 120  
gcttatgaaa tttt 134

<210> 30451  
<211> 244  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30451

agctngtgaa ccgatataatc gataatattt tagatcgaaa gatccttccg gaaaggaatg 60  
taaaacttta tcattctgaa tttgacgagt ttaaaataga attagagagg cgaaacctgc 120  
acaaacgtct cgccaacctt caggaaggaa gcatagatgt ggcagtggtt aaggaatttt 180  
atgccaatat ctatagtcca gcaaataag ctctanata tgctaaaaca agaagccatt 240  
taat 244

<210> 30452  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30452

ggctcaacta caaccttata gaggcctca aacactattc gtgntccca ctccagctn 60  
tgtttactat tccatcgacc gacagaacca aggggatgaa ctccaatctt cggtcgacgg 120  
aggagtgagc tctacaacan agtcaatgag cacctagtcc ttgatggcac ctcttttttc 180

aaagatgatg ccatacttgg acaattcgat caaccacttc accatccttc ctcccaaata 240  
 gggtttttac agaatttttc agattggctg atccatttgg atgactactg ggaaactcta 300  
 aaagtaatgt tgcaatctct ggacgtgatt agcattgcc aagaccattnt gtctaactct 360  
 tgataatgcg actcaacacc ccacaaaaca tggctgatga agatgttgaa gaaatagagc 420  
 agcacactca gt 432

<210> 30453  
 <211> 240  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30453

agcttttttt accatgagat tgtttgaggc cttatgtttt tcttgatctt gtntacttga 60  
 ccttaaatac atgttgaagc aatgcttaac ctttgaatgt atggtgaact aaccttgtat 120  
 taatcttaaa gcaatgctta acctttgaat gcttggtgaa ccaaccttgt atgaacctac 180  
 attggcatca tcagaaccct gtatacatat attcacaata ggtacccgac tacgtgtatt 240

<210> 30454  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30454

gggccgctgc cattacgacn acnnncctta tnganacnca agccancngc acaaagggca 60  
 cggatggcac ccaaggggaat gattaattca gccccaaac caaacngagg ggacaacaca 120  
 annacaaaac aaggaccaca tgccccgcac gcaaacaag acagcgccta cgcaaagaaa 180  
 atagcccgcc acggaaagag agacacacaa tgcgctggca gagccaggag gcaaggacca 240  
 accaccgacc ccccgccact agaccaaaaa tatcaagggc acaagcaagg ccggccacga 300  
 agaacgcccc ggataacgcc ccgctcgagg cacaggagcc caagaaaaca gctacaacca 360  
 aacgcgggct ccttggccta agaggccaaa gaagaagccc cgccaaaaac caggacacgc 420  
 tcgacn 426

<210> 30455

<211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30455

agctttttatt gttcaatttc gagtgtctcg atagaggatg cccctgaatc ggacctccga 60  
 atgaaaagtt atgaccattt gaatttctcg agagctacct ttgttcaatn tcgtgcgtct 120  
 cgatatatta tgcgcctgaa tcggacctcc gagtgaaaag ttatgaccat ttgaatttct 180  
 cgagagcttc cgatgttcaa tttcgagcgt cttgatatac tatgcgactg aatctaacct 240  
 ccgtgtgaaa agttatgacc atttgaattt ctcgagagcc tccggtgttc aattttgagc 300  
 ggctctaact gtgatgcgcc tgaatcagac atccgagtga aaagtatgga ccattgattt 360  
 ctcgagagct cccgtg 376

<210> 30456  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30456

tccttgtggt cggactctca gccacttatg atagccgtcg atgatcccat tactgcttcc 60  
 cctaagetct ctgtcctttc ttcacgccgc atcccatgcc ttgcgaactc cttggagtac 120  
 cctcgcggtg tggctactga naccctgtgc gatgaaaggc gtgatgcttt cgtctaattg 180  
 cgctcctctc atggggtagc caagctgtct tatggcgaga acgggattat aattaatata 240  
 accccttggt cccatcaagg gaacatttgg acatccttcg catgaagata gaatcttgat 300  
 tcttccttcc ttctagcgag ggaaccaatt aacagaacgc ccccatgc 349

<210> 30457  
 <211> 206  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30457

agttttattt tctgattgng gacctgtggt ttgtgcaagc gcgtcaaaag tctacgcacc 60  
 ttgaaatggt cttgatggat gcaaaggat gttgcgattt agcttttgct ttgtttaata 120

atgagatacg gattatgctc tgctttgctg attgggtggt ttgatcccc atattgagtt 180  
gtaatttatg ggatttggtt aatcat 206

<210> 30458  
<211> 510  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30458

nnggggcgga gggaganann nnnnnnggat ccccnngna tnanactnng nanaananc 60  
nnacnnancc nntnanattg cnacatgnng aggttaggac acagtttgca tancettaata 120  
tcgcgnangc aaactgggag tctggtgcat actgaaagcc catgaggccc actaaacaaa 180  
tctaagatag ctgatgaatg tgtatactaa tgaatccaac gctgggacgt cagatgacaa 240  
tggatacacg atggtcagaa agacaaaatt tggccacata tatgttaaga ccatgtcctg 300  
cgcacaccct attgaagagg aggttacaag actgcgatct tcaggttcta aggcaagaac 360  
gcatttccca gagccataca tacctaaaca ggctctccta tggatgatcc taccatgagc 420  
ctgcggaatt tgagcacaga nagacacatt catcacaata cacgcactct gttagatttt 480  
aaagtgggtgc gaccttcgtt cattgaaatg 510

<210> 30459  
<211> 493  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30459

gaagttcctt gattcccaat tgtanctccg ggntaaagag atttgagaag gtttgtgatt 60  
tgaacacaan gccacggggg gttttatata attatcacct cactttaatg ctgctatgct 120  
cataagtaat tgatatgttc aacggtataa ttgtatacgt tgttcatacg ttacatctct 180  
agtgtatcaa ccgcctcggt gataatatta gagcatggat gattgggata ttgctgttat 240  
atatattgct ttaccgcttt tcggtgtcat ggctaaatta ttacctttcg ttgctaaaatg 300  
cgtaatccgt acagacgatg atctacctct aatgctatta tcatgactcg taactaatat 360  
tatgaatact atatctcttc gtgtttttca tagatgttca ttcattactt acagtacttc 420



tcgtcttaca atacgaattt atagccgtac tcgtgtttat agtatagttt atacacttct 480  
actcatctac tcg 493

<210> 30460  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30460

ggggcgtgaa tcatgacatg gacnccnenn nnntaganaa anccccggag nangaacgaa 60  
agagggggga cgaaggatat ttcccccca cgccaaacgg ggggggaggg aaaccaaacc 120  
acccacgac aaacacgagc agacaagacg gaaccagaaa aaaaagagaa cggggcgaac 180  
cagccgacgc acccagcgaa gcgcaaaaag acaaacgcga ggcccgcaca aagagacgca 240  
gcagacccag ggggcgca ggaagagggg cacaacaaga gcaaaaccca gcacaccgga 300  
gaccggagcc cagaaaagg ccgggacaac gcagcgaacc acgcccacga agacagcaca 360  
agacgccgca caggaagcgc aagcaggcg 389

<210> 30461  
<211> 297  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30461

ctcatcttgg gggagaagct gcttctttca tggcttattc cttaatggat ggcgctnct 60  
ctcacctnct ttctttgtc ttccgctgca tcttcatggt ggaaaatcac cattaaagga 120  
ccccattgaa gctcaaagat ccagcctcca tataagctcc acaagcaagc ttccatcaag 180  
tggtaatcag agcacaagag cttcaagtag gtgctcctta aacctccatt aattntttt 240  
ctttaccttc tcttcattg ttggttcttc atttttatcc atgtatctcc tcacatg 297

<210> 30462  
<211> 438  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 30462

cggcgcaagc gctgagacct ctgactagng gcngatagtt tattttatcg cacatcacta 60  
cgctggggcgc atcatcttta ctggaagtaa acttcaagca gtgggcttag tggagatgat 120  
tgttagtcaa tgaatacgac taacttttgt gtaagatata tgtgaaaatt gtatctaact 180  
cctcccattt atgggttattt ggtagtgttg taattacctt ttgttaaata taggtcataa 240  
gtacttagta ctcccatttt gtgtatttaa taatcatttc ctttcaattt cagggttaatt 300  
aggcaagttt gtgaagtgtc gaatttgata tgctcgctaa gccaatctgt cggcttagcg 360  
agccatcccc tgagcgcacc acatttgtgg attatcgcta gacagaatct tgaagaagga 420  
tgagcttgac cactcgct 438

<210> 30463

<211> 216

<212> DNA

<213> Glycine max

<400> 30463

atacacttcc ttcaaagtga agtgtgtagc ctttctccat catttggcca atgcttagaa 60  
gattttcttt taggttgga actagtaaga caacatggat gaatcgctta cttttatctg 120  
tctccaccgt tacagtgcct atgcctattg attctaccac actttcattt tccagtcgaa 180  
cttttacttt tgacaacttg gcaatgcctt tgaaaa 216

<210> 30464

<211> 477

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30464

ggcagaatga tccgtcagat cnancnannn nanaannnac ctnccgtagt ctttcatctt 60  
gttttaaaac acgaaaggag ggtantttta ttttgatnct anggnccgaa gtgagggaga 120  
gaagcttaat aaagttactt gacaagagag gcttattaaa gtggaatttc aaaattgatt 180  
cgaaaaacca cacctggctt tcaccaacct taagttattc cttgacaata gatgctgtga 240  
aatatcatat tgttcgcgaa tttcaggaaa ccctaattgt ttcaaaaagg cgaaaactgc 300  
cattaaacta ctaaagaaca tgaaaggcct tgaggaaatg ttcacatttc aaaaagcgac 360

ccttatggag gggttcaaca tatattgaaa ttgatactg aggacaatgt ctcaggaggt 420  
acgaatccgc ttagacatgc gaatgttatg aagttgagcg ataaacagta atacacc 477

<210> 30465  
<211> 446  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30465

aggacgtcga tcacttgtat ncccccaat nttaggataa tcnccgggat cctatatagt 60  
cgaccatgaa ggaggcaagc gttttgttct ctttatctaa cactaatcct aacggggggct 120  
taaatccctt aaattcctaa gctacagcta agtcttctac ccaaaagtta agatagaaaa 180  
agagaaaaag gatcaaggaa cttacttgga ccgtgtatga acgatgcttc aaagtccaaa 240  
aaggcccaaa gagagttcaa atgcatgatg tgcaaatttc tttggagaga aagaatgcac 300  
atgcgaagtt tctgtactat aacaaatttg agaggaactg gtgggttcact cactttaaca 360  
cgttggaact ttccgttaac gggacatttc gctaatagagc aaaaaatact attggttcta 420  
aaccaacttg cttacgaaca gggctn 446

<210> 30466  
<211> 254  
<212> DNA  
<213> Glycine max

<400> 30466

catatgctga caatagccga gaaacccatg aatctcttct ggggcggaga aggtgtctgc 60  
catcgcttg gccttggtta acaatcgggg aagttcttga ctcccggtca atgaaaagca 120  
caccgatcca tccacatggt tgctcttttg tgtaaagagt cgatccccct cctctaccct 180  
cttttccgct atacttgtgc atattcgtcc gcacccatg ctctggccc gcggtagacc 240  
ctactctctg gtac 254

<210> 30467  
<211> 286  
<212> DNA  
<213> Glycine max

<400> 30467

aaatcctgac tcaccataaa ccttgaccca gggtgagaat gtcaatcctt accctcggaa 60  
gcaaaaaaaaa gaatagaagg gaaatttcca atcaaagaaa aagagaagga aaatttccaa 120  
tgaaagcaaa ctaaagaata gaaggaaaat tccccaatca aagagtggga gaaagcacia 180  
agaaaagaaa ggaaattccc aatcaaagaa tgggaaaaag tttaaaagga agaagaataa 240  
ggaaagaaag ctctgatca tggatcgaag gaaaaacaga aaaaat 286

<210> 30468

<211> 487

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30468

agaagtttag ttcattgnaga cgnacacacta tananactaa gcttctacct cgaaggncca 60  
atccagccgc atataatatc gagaaccttc taaattaacc aacggaagct ctcgagagat 120  
cagatggcat anactttacc tcggaggctg attcaggcgc ataattttc agaccctaaa 180  
ttgaacaagg aaagctctca aaaattccaa atgggtcataa cttttcacac ggatgtctga 240  
ttcaagcgca taatatatcg agacgctcca aatttaacaa cggaagctc ctcgagaaat 300  
accaatggtc ataacttttc actgggatgt ccgattcacg cgcataatac attgagacgc 360  
ctcaaattga acaacggaag ctctccaaaa attcaaaggt cataactttt cactcggatg 420  
tccgattcac gcgcatacata tatcgagacg ctccgaaatg accacggagc ctctcgagat 480  
attcaat 487

<210> 30469

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30469

tantgcacia ccncaagcgn cgcccaaggg cggggctttc agaancagga cctcccttcc 60  
aatatgacca ggaccagagc cattaccttc gagatgacaa ttggacttgc tcatttcctt 120  
tcagagaaat tgaaccact tataattgac cacagatgat acattgagaa gtcattagaa 180

tgggaataag cactgcataa taaaacttca cactagtatt ttgggacata aagcacaggc 240  
 atacatatga ttaattcaga taacatccaa tgtttattga tgctctcctt tgggtgatca 300  
 cccacacaca acatatgaac atgatgatgc taataaaaat cttgacatta tgtgggcaat 360  
 taatatgccc taactgtagg tgctan 386

<210> 30470  
 <211> 490  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30470

gcgatgctat ttctttatnn ctnnannna naganacnch gcgcagacca ggcagnggg 60  
 aataacgagc ccccccatg atttagttcc acgccccan naaaaaaagg cgcgggagac 120  
 cacggggaca cccacacaaa gacccccaan gggacacact accnggaaag acgccncgga 180  
 cccgccaaag aaccaacan gggaggacac ncacgcaagc gggagccaag aaacaagcgc 240  
 gggaaaaagc gcgcgaccaa caaagcggca agaacnggcg cgccaacgca caggaaggcc 300  
 accgaaacag anacgggatc aaagggaac ngacagcccg aaggaccaac cacacagaag 360  
 acggcgangn caacnganc cacgagagg aggccactcc agncgccccg cacacagaga 420  
 aaagacaacg ccgacaacga cggcgaggan gaagcccatt cccccgcaca gcaagccggg 480  
 aagacgagcg 490

<210> 30471  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<400> 30471

agctttatgc cctcaagcag cgcttttcac atgctgcacc attgttccgt gatagcatgc 60  
 acactttccg caccaacttt ttcaatgtta ttgagtataa gtagcatccc atctgttttt 120  
 ttttcatgat gtcaatgaaa tgaatatgca tggcatattg acatcagcta atttataggc 180  
 tcaaagaaag taggaggagg aaaaccaatc aataaatcat ttttggaagg ctgaatttca 240  
 cccaaagaag gacctattgt tattattaaa aacagaccag accttactca cttgccaaag 300  
 ctagctcaat tgacatctta atacaccccc taacccaaaaa tggacat 347

<210> 30472  
 <211> 483  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30472  
  
 nggacttagg ggcttgatnt ctannnatng anannnacna ccgtngaata tntggataat 60  
 tctgacagga cagatttat tatattgca ctaatgatna naggagagcg acccaatgag 120  
 aagccgacac tgacggaaaa tcagaggaag tccctaatta aacctaaaac aaggaaacaa 180  
 gtgagcaagt ctttttttct tagtgtgagg gatcaacacg caacnttttc tcttatatat 240  
 gtctttctta accctcaac aaattgtata tcttttaggt tattgaaaat tgtaatagaa 300  
 cattaagagt atattgtttt tacaaaatag aaaaatatat tttagcttgc ataaataatg 360  
 ggaaacttta tagtaaaaat ataatacttt gaggatataa attctggtgg aactctatat 420  
 atatatatat atatctatat gtatatatag atatatgtat atatatatat atgtatctat 480  
 att 483

<210> 30473  
 <211> 367  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30473  
  
 agcttttgtt aatcgattaa acatatttgg taatcgatta ccagtgtttg tttctgaaaa 60  
 atctaaagat gtaactcttc anaaaggttt tgactttntc aaatgggttt taagtttttc 120  
 taaaaagtta taactcttct gaatggtctt cttgatcaga catgaagagt ctataaaagc 180  
 aaggctntgt tttgcatttt gaatcaatca tttttccaat ctttctaaca aactcataca 240  
 atcttttaca agccttgaat ctcttgaaat ttctttgaac ttctttctct tctttgtacc 300  
 aaaaactttc tgaagttttc tggttttcca aaccttgaaa acttgtgcta ttcattcttt 360  
 tcattct 367

<210> 30474  
 <211> 346

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30474  
  
 ggggtannaac gaaatgttgt caaatacaat aaaagtataa tttgtttata ttntnncccta 60  
 nacaatggag gatgtcttca agcgtgatcc gtgtgccgcc ttcacgtga cctgacataa 120  
 acattgcact ctacattgac acccctagtgt atccttaacc agtcttgcac gacacgtgt 180  
 gctttcgtgc cttcagtcac tatcctgagg ttgagcaacc actccaacct ttctgtaatt 240  
 gcttggcaag cctcctatga cattgacaac aacagataag gtattaccat attgcataat 300  
 taaattaaat gaaattaaaa agtacatgaa tttatatgtt accact 346

<210> 30475  
 <211> 318  
 <212> DNA  
 <213> Glycine max  
  
 <400> 30475  
  
 aggetgcgac tttggtgacc caaacacgct atggggggga gctctcctct aacttgcgcc 60  
 acttgtttca tcgctaataa tcaataagaa tctcatcact taattattta acgtccctga 120  
 gcattaaaaa tattccgaaa cattgaatta cgctcttttt ataatcatct ctttaaaaac 180  
 tttggaactt agagacagat ttaaaataaa attggaaacc tgaaaatatt tttattactg 240  
 aattttacta ctaaatttta aagggttttt taaaaatcaa ttccatttct aaacatatgt 300  
 tgaaacgatc aattaaat 318

<210> 30476  
 <211> 374  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30476  
  
 gggtcaccca cgacccccc nataaaccac cgaccgaaac gagcgagaga aggaagcata 60  
 tttatcgagc cagcccacca gcgagggggg gccaggaaac aggaccaca ccccgangcg 120  
 gaaagaacca ccgcagaacg caacagaaag aacgcgcggc accaagaaca cgcagaaaca 180  
 cccgggaaag accaccgcac ncgacggaag ccaaagacac caaccccccc aaagaaaag 240

aacccaancc cgaacggcca cgcagcaaaa caagagacca cccacacaa aggccacgga 300  
gaaggcgggg aaaacaaacc aagagacgag cgcccacgga cggaaaaaga ccgccacgga 360  
aacagcaggg gacg 374

<210> 30477  
<211> 250  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30477

agctngtgng ggtcgtgggc agactcaaaa ataatggaat gtgtagtggc tttgtcccat 60  
acctccattg cagatcagtt gtgcctgagc ttgcttcctt atgtttatta attttgttca 120  
tgtttatgaa ggaatcgaaa ctttctgccc aggaccataa cgttaaaaaa ttatgcatat 180  
atgaacaaaa ataatgtttt aaaactatag ggactataaa gaaaaattat cacaactatc 240  
aggacttaaa 250

<210> 30478  
<211> 441  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30478

agggagacca tttcatgcga tcgtacnnac nnnttagaat agccttccta ctaccagcta 60  
ataattaacg atgcactaag accattcttt acttcttaan gcgngnanga atcgaggatc 120  
agtatactaa gccagactac aatgtaacct ggctattatt catactgtgg ttctaaaaaa 180  
agaaagaaga gtagatcgcc ttgcttcata taaaagaaag taaaagaac actgtcctct 240  
gtatttgtgt ttttcaatac aaaagaagaa gataccctga gaaaactgat cctcctcagt 300  
cacctttttt ctaccacatt aattaattgg agcaacaagc tgatttcttc tccacacaaa 360  
cagaccactc cctcagggga ttatgtttac cccacaaca taatgcactg cagttaatag 420  
gggacataat aatgtttttc t 441

<210> 30479  
<211> 289



<212> DNA  
<213> Glycine max

<400> 30479

atggcatgat gcagatatca ccacgtactc aactctgata aggacactta attgtgcctc 60  
ttcatgcctt agtttgcgac acttggcaat accctcaaca atattcatgg aaatcacaca 120  
aaggactaag ttcaagccta ataatcactt catgcaatat tcttttatcc attttgactt 180  
caatgcttta tgggaaccca acatcattac atcaccaata gcattccaca agaaaccgca 240  
ttctaagggtt tgatgtaaaa taaaaatcta ccaataccat tcaatttgc 289

<210> 30480  
<211> 461  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30480

nccgggggaa ttttgnangg attncnnata ggnacnncgg nganaaaacn atgaagccaa 60  
agattaattt tttctnanca aancennagg ggcgggttca gaattaggct gcatactata 120  
aaagtatncc ccataaccgaa taatcaaaaa taccctcata cctttgagat ttaaagcaaa 180  
cctcttaaaa agtattcagg tatccggcta tgccaaatcc ttgaatgctt agaatectta 240  
ngcctataaa gcctctcaaa agtattcagc tatttgacta ggtcgaatac ctgagcactc 300  
aatcattag gcttataaag cctctcaaaa aggattcaag atatgggtaa gctgaatacc 360  
taaactctta gactccttag tcttataaag ccctaaaaaa tatcatggat tcgactaagc 420  
cgaatagctg acactcanaa tcttaggcac tatgtcctca t 461

<210> 30481  
<211> 240  
<212> DNA  
<213> Glycine max

<400> 30481

tgttttactt gagaataaat cacttaatca tatgagtgcg tgagctattg cctatctgct 60  
ctccgacttt ggcataaaca aaaagccgag tgcgtaagac atacatgatt tagaaaaaaa 120  
tcgtccacat agcgtccatt gtgcaatcag tcataaaagc atctggacta atcatgaagc 180

aggacatgag taaaccactt taaaatataa accactactc gtatgacata actcataaat 240

<210> 30482  
<211> 461  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30482

gggactaggt agacatcgaa ncnnaantt agatacnatc ctatgactng acactcagca 60  
gagcaagctt tgatcatttc cttaacacng ncaaaggaga gagggagcaa taatgaaaaa 120  
aacatgacac ttgggtccaa tgatgcacaa cctcacaagt acagggatca gctcaggcat 180  
gacacatcaa aggaagcaca tccactcaga cacacagata agccccccaa atgaaccgcg 240  
gggttactcc cactcgcatt cagaaatcac aacaagcacg aaacactaag gtcaaatagg 300  
ctgaaacctg aatgggctgg ccacacatct gtgcttttct agacatataa aacactcaat 360  
gatcaacgag agcaagaaaa tgcagttgac ataacgggca cttatacctc caaaccattt 420  
tgtaacaagt tccctagaga tgaattgacc catcatattc g 461

<210> 30483  
<211> 201  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30483

agttttgatt tccttttagn agggaannna tgcgggggcta agttggagcc aaacccagtt 60  
tccctcatta agaactagct cttttcttcc tctattgcct ttaattgaat acacctttgt 120  
ttggttctct atttggttct taacctctc atgcaacttc ttacaaaact ctgacctaga 180  
tttcccttct ttatgtataa a 201

<210> 30484  
<211> 233  
<212> DNA  
<213> Glycine max

<400> 30484

atgctttgct atcacttggc cacctcgtac catatatgct tacttttggg ttaacataac 60

tgacacaatg tcacttactt cactaacctg aagccaagct gaattatgga gaagggagga 120  
 aaaataatca ctcaaaatgg ttcaaaaaaa caatgaccaa tatggaacat tcatgaaatg 180  
 aatgctagtg aaagagatgt ctataactca acaatagaga aagtgaagat act 233

<210> 30485  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30485

ttccagcctt ttatgccang gttttaatcc gaagtccaaa cacttccttg tgctttttga 60  
 cctttgtgaa agtgaccttt ccagggatat tccacggagg cccttctagg ctcttctata 120  
 ttggactttt cttgaattca aatgttagtt attcanacgt aatagagaca aatggaattt 180  
 gaataanaca gtacatgtgc actttccttt tctgtgatac ccagtccttg agagactaga 240  
 cacatgaatt tatcgtatga cagtgtgtta tatttgatg aacaagacta gatgcttact 300  
 aaataaagag agctgaacac tagattaana tagagcatac tctatctagt tgtgggcgat 360  
 attcctttaa cata 374

<210> 30486  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30486

tttaaaacta gtcactnaaa attttattat ttttgaaaga atcttcaaaa acaagtcact 60  
 tgaaaattgt gactttggaa agtattttca aatcagcact ggtatcgatt acccttaagg 120  
 tgtaatcgat aacacatcaa cagatgtgaa cttcattttg aattnttgaa aatcttaaac 180  
 atttaaaaca ctgggtaatc gattacatga ttatgggaac tgattacagc tttgaaatag 240  
 tttaaaaaaa tgctgggtact ggaatcgata ctactttggt atcataccaa gagaacactt 300  
 ggtaaaattg ggaaacttat gtctactaat gtttgaaaaa gnttagtac ttatcttgat 360  
 tgaagcttct cttgattctt gaatcttgag tcttgaatc 399

<210> 30487

<211> 347  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30487

agctaattaa tgctaaccac taccattgca catgtctctt aaaccgtggg ggaaacacat 60  
 gaaattcccc accacaatct acccgacttc gacccttgcc tcggatatgc cactgaaggg 120  
 caagcagttg gtggtatacc cctgcaaaac acttttgagg gccctcagt atcacccaaa 180  
 actacacctc ttgcattcca caacaagtaa aaaccctcat gctatggtag aaatgggaaa 240  
 gttggatcat ctagaggaaa ggctcanggc cattgaagga ggtgaagatt atgcctttgc 300  
 taacctagaa gagttgttcc tagtacccaa tatcatcacc ccttcca 347

<210> 30488  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30488

nnnecgttct aatactangt natctancat anaaacacaa gcccgcttg gttanacatg 60  
 aatgggacct gaattgggaa cttgattata tatttcggcc aaaanggaag gagggaaaaa 120  
 gtgggtttca aaatctgcac tttatgccga attttgcttg tgaaatgtgc cgcagaattt 180  
 tgtattagt ccaaaaaatg cttggtgatt gctggatgtg aaaaggggta tacctatggg 240  
 ggtctggaca tttgcctacc gaatccaacg ggtaaaaaatg agacttatgt actagagact 300  
 tccaagtaaa ttttcgagtc gatccaaccg tttacgaatt ggaacgaagg aaatgttact 360  
 ggtgtatttg tatgtgaaaa gctgtgattt tgagttgtgt tttgggtaga gttttctgcc 420  
 tttgccctat tttgcttgtt ttggtagtct atgatgattg gatgtgggaa tacctcgatg 480  
 ttgtggaag 489

<210> 30489  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30489

ggagacgacc cgaacacagc ataaaaccgg ccccgggacc cataaggggc cccagggcgc 60  
 cccccctttt gccgaaaccc ccacaccncc gaaggggggg acgaaacacn agcgaaacac 120  
 ccnccccaca cccccacgg aagacaacaa cccccagcg cacaccnaac gaggaacaaa 180  
 agcaggccac ccacaggcga gggcaaccca cacacgcaa gaccgccgaa gcgccaaca 240  
 gaaccaacca aggcacgacg agaaaggaaa aaaaagcaac caccaccgg aaacaaaagc 300  
 caaccggga ccagcaagca aggaaccca cccgccagcc aaacagaaga acngcaacac 360  
 gaaccacc 368

<210> 30490  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30490

aatttttttt tttattcann cnnanaanaa caagggcccn ngngggagga agcagaaacg 60  
 natttttttt ttggaccgga aacacgggag gggggggaac ggaagcacc ccctccccgg 120  
 ccnngaacc cccacaatac accaggccat agaaaccccc cggtggaaaa gcaaatgtct 180  
 aaaacaaaaa tagctttagt caaaacggag gaaatcgccc ctgaaaaat gagcaactga 240  
 tagaaggagt ttccttccaa tcaaagtatt tcaagcagtt gaggcctgct aacataataa 300  
 cctttaactt gaacgcactg ctaggttagc gcccctcct gtacagggtg caagaggttg 360  
 gctcttcct atagcatatc gatcctctat attgtttgac agtaactaag tt 412

<210> 30491  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30491

gtgctattga gatgggttta aactttactt caccagagaa gcctaatga gccttgaagg 60  
 ataacctagt ccaaggtcac cagatggaag cttaatagag gagcatgac gttgattgat 120  
 gtaagaaaga aggctnctta tacatcatgt anggaaagat atgcaaagg gagacgaatt 180  
 ntgctcaaga tgccccaaa gaattgtgac acaagagatn gngtcacatg agtatgaaag 240

gttnngggagt tctagcaaat gatcactttc canacatana ngagcagcca cttgaatcct 300  
 acaaagattg tcttcangta aacgatcagg gtgttttcaa aaattgt 347

<210> 30492  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30492

cccaaagcta catctccaan aaaaacncca cggggcccaa aaaagaacaa aacagnntttt 60  
 taccaggcgg gaaggaacac ggggggggggt cgaagaaata tccacacctc tccatatccg 120  
 caaaacaaaa aaaaagaagg ctgaataaca aaccctggcc aataactaaa aacacgaaaa 180  
 gaaaaccag ccgaagcaat aaaaggacac atgacacacg atcaactaaa aaaagcaaag 240  
 accatacagg tcacaaaaac ctatggtcca tcaggcgtga ataccaaca aattaacca 300  
 atcagagaca caacccccaa aagtccgaag tagagcaaaa gaaagacctg gccagagaag 360  
 ttataggaac taatcaaaaa ttgggcagac ctacg 395

<210> 30493  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30493

acctnttttg ccaatgngct actttcgcca ggaaggcatg gacaatcgca acttgtgcaa 60  
 catgtaaaac acanatggga tggcttttta cagccaggaa caaacaactg aaaccagct 120  
 atttcttgcg gattccgagc tgtcaacttg caaaggaaat acgccaaaac ctttagtttg 180  
 atatgtatgc agtcatctat ccaaagctta gtgaaagcca tgttcaagta aactgcatg 240  
 gttatgtata taatgcaact ttctttagc acttcgcatg ttggtatact tatattaata 300  
 aaatatgttg caacagcttg gaagaaatta agtcaca 337

<210> 30494  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 30494

ccgggggatt cccgagatnc cnnataanac cngcagagcg aactaggcat tgcgcccacc 60  
ttacttttac ccccgcccac aaaagcgggg aattttcatt aactactccc cctcctggag 120  
cacgtacacc aagcaccat tgttccacac ctaacgtcca taacgtaagg atttcggaga 180  
cgaacgttct aatattactg tctcttctca cataactcatt gaagtgaatc cagtcgatga 240  
tttccttcac cacgaactgc atgacgnttt ccatgcacat cccttcggac caaacaccag 300  
tttgtaccct ttcgacacaa cctatacttc tttaaccgtg ttcagagcat cgcctacatt 360  
gagcaacctt gggctctgaa gtaaaaaaat tcacttgcaa cggtcgtgtt tgttttact 420  
cttggacact cgagaagact tcctctcgaa g 451

<210> 30495  
<211> 497  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30495

ttttnttccc ggtttcgntt agcttntnt agngcgattn ncgagactcn gccngnccg 60  
gggtatctct ttnagagcga cactctgcag cgctgtcgca cncnnttgn ggataangga 120  
cgannacacg aacacngcgc gggaggactg tttgtcatga tatggaatac agcatctatt 180  
cagcatcctg ccattctctc tatgcgcgtg attcgcagcc tgtacatggg atctctcata 240  
tacaaggcat tgcgacactt tctacttggt aagcccacta tgtagctgca ctttcttgca 300  
catgtcatgt cacttcgcta agacgattgt tggatgaact tcccttcccg cgcaaagaaa 360  
gcacaatgat ctattttgat gatagatctg cacaacatct ttccaagaaa tcagtgttcc 420  
cttaactaac taagcctatc gataccaggt atcattttca tacaccatgc cattcccaaa 480  
gagatagact attgacn 497

<210> 30496  
<211> 422  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 30496

ntcattatcg attgttatct aacatnaana aaaccngcnc ggaacggacc taccgaaaag 60  
agagcaattg aatcagacga caacnggaca aggagcgag agagcagnng aaccaccccc 120  
cgcaaanggg gccngcaaac ccgcgcnagg aaggaagaag ctcccachag caccggaaaa 180  
aagacccaag acaannnaga gggaaagaaa aangaaaggc ctgagaaaag aacccccaaa 240  
aaaagaaaga ggggcagcac catatacaaa gggagggaga atgggaccat aaatgcaaat 300  
gaacagcaag ctcaacgcaa cgcttacaac ataacaaca cagtatatta ttttaacata 360  
cgagttaacc tctggccaac aatagagatt gactaaaagg agatagaccc atagtcgaaa 420  
ag 422

<210> 30497

<211> 290

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30497

agctttttatt atttttgcca gctgcatcan aatgggaaac aactggagggt ttttgagtct 60  
ttgcctcttg gcattgattg catcaactca tgctcaactt cagcttggtt tttatgctaa 120  
taatgcacca aaagcacagc aaattgcttt gaaatttggt catgaccata tccataatgc 180  
ttcatcacta ccaactgcat taataagaat gcactttcat gactgttttt gtaagggtacg 240  
tgcttcaatc ttttaagcttc tgtcattttt acttaacaca tacaatgtta 290

<210> 30498

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30498

acacaaaaac cagcttatca gacaagaagt aaagatatcc aagagtttgt ttatacgtcc 60  
taagcttaaa gggttattta tagaaggaat ccattgaagt acaaagttgg caaaaaatta 120  
agtaaaaagt tttttcaaga aatttactct cttgtaatcg ataccaaagg atgtaatcga 180  
ttaccagtgg ccaaaactga tttacgacag ctattaacat ttgaattcaa aatttgcatt 240



gtgtaatcga ttgcacatat atggtaatcg attaccagta gtttctgaac gttntaatc 300  
 aaagttttaa gcttttaate gattacacac atactgtaat cgattaccag aggagttttt 360  
 cagaaaacat tctcaacagt ctcattttt tatctgtttc t 401

<210> 30499  
 <211> 76  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30499

agcttttagcg tgaaactnta acttttcata ttctttcaat tagatatattt taatattggc 60  
 cttttattta tctttt 76

<210> 30500  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30500

tatagtttaa atcaaaatag atctttgtat aatgggtgta ttttgtgctc tttntatgaa 60  
 tcttcaagag ttgtgggttaa ggatttcccc ctttcttcta agtcttgana atccttaaga 120  
 atanttttctg tccactagat acctttttgt ttagtaatgc cttgacctcc tcacaaacaa 180  
 atgtgtcttg tacatcacta gttgaagtgg tttccaagaa aaaatcaact aaatgagctt 240  
 gatgagtttt ottaagatcc ctatgctctc tttcaagatg ttgaaaactt gtttagtttt 300  
 ctataagctt tagagacgtg agcatataca gataaaagtt gattgtaccc ttttaattaaa 360  
 tattttctag attcanatat tatctct 387

<210> 30501  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30501

nnnaagtat ctttgtatcg taccnggntn ntagannann cnncccggag gcacnaaaaa 60  
 ggaccctcaa gcagcgcgca cncgtttttt tatgcgccaa aggaagccca ccaggggggg 120

agatattcgt tatctaaact ctcaaaagtg actgagaccg tgatgaatat agacgagttc 180  
gagtcacaat ccgaatatta ctctcgaata tcggccgtag ccaggcggca tgaaagaaag 240  
gcgcgcaatc ttgagaaggg atagaacggc aaaaattctt cgactttgct ctccaagtct 300  
cactgaatgg tgcccccta gattgaaacg cagatgttac caacctgact attgatcaac 360  
tcatggcgac ccttccatcc tattgaaaca ctccaatgga cacaacctag acaaagccg 420  
cctcagagca cgacctcggc tccacgaaaa gaaccn 456

<210> 30502  
<211> 452  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30502

ataagcagta cagaagcann cnatagaaac nccgcgagnn cacacgcaag caagaccaat 60  
ttattttttg ccgcnaacaa cagccgaggg gaaacacaat aaacaaccga ctggacacaa 120  
agaaacaaaa aaaagacaca cgngtgtacc cctatctgca cagaacaaca acatctaaca 180  
tagctttact cggaggaaca cgaaacccca agaggacaga tggaaactac cctatgatca 240  
acctggagaa tatcaatggt gaggagagag agactatggt ggaccagaat caacatgctc 300  
gtcagaaccg gtgagttttg gagggaaacc acaaccacaa actgctttac aaaacctttg 360  
gcatactcac tcaaagttat ttagagctag gcatccgcac cgtaactgtg cctaaagggtg 420  
gacatataaa ngaagacaac gaacggggcg cn 452

<210> 30503  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30503

aggagtgnnn ctgaacaccc agtaaccgac cccgggatcc caagacacca gaggcggcaa 60  
atTTTTtact ggagcacaag gaaacagccg ggagngaaga aggggaccaa cacaccang 120  
ggcccaacag gaacaacaac ggcgcgaggc cccagaagca ggaaagagcc ggccacaccn 180  
tccacatgta aagccagaca acttctctct tagcccatga cccacgacat cgcgtgcatc 240

cacagatcgc atcccaaata tccgaggcac aacccttttag accgtaatat gtggcggaac 300  
caggcgagca agctgagggc gggcccacaa agcgggacct cggactggaa caatagaaag 360  
gcggtatggc acaccactag cctctatcga cagccactca tgacacatgt gcgccgcct 420  
gcgcaccttg cgacg 435

<210> 30504  
<211> 480  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30504

agggatantc tgaatcttga nncnnnnnnn nnnnccgagg nngcnnccagg gntgggggag 60  
aaanctttna tacaattccc accngngngan acccaccagg agggntttca tatgaagcat 120  
acatcactgg ggggtataat tccaccttat tgaaaaattt aatctgcata atatcacttg 180  
tgctcaattt cttgtgacca agtaacattg cacaatccat ttcattccaac atgtcatggt 240  
tgtggccaaa gcaacatatt gtacatacca atgatcgta cttaaagttaa cgtgaccatg 300  
aaacctagca ttgcaaccac cttgtatcat gttttcctca cgcttcctag ttgtcaatgt 360  
cagaccacta tcattctaat atccaacatg agagcanata aaaaagttgc tgtaatgttn 420  
tccttattat gaattctata acagtacttt tacggacaaa ggtaccatta tatctagctg 480

<210> 30505  
<211> 141  
<212> DNA  
<213> Glycine max  
<400> 30505

agcttttctg ttaattcatc tctgttaatg gaaacgatgc ttattaaggg agtagttgaa 60  
aacaccctgt atatcactag accctgtgaa tgaagtgaat tttatgcatg ttaaagtctt 120  
cttatttttt tttgaaaaac a 141

<210> 30506  
<211> 349  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30506

tcttttnggac cttgaacaag caattaactc ctctttttaga ttcattgctat gngctcgcga 60  
ctgggtctctg tcttcccttc gcaacttgag ttcactattg ctaccccata gagctccgcg 120  
aaatatgttc cggccatact cttccttgtg agccctcttg gtctcttggt caagggctct 180  
tgcagtaatt gcattctctt cccgtaaccc ggcacactcc ttccgaacgt gtgtagcggc 240  
caacttgaac ttctccttgg caagtattgc ctttccctaac tctcttttga gagtttggac 300  
ttcttcgtcc tcttccggtg cttcaaaaact ctcttcgctg acgactttt 349

<210> 30507  
<211> 157  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30507

atctatcata ctttctctcc atattanctg agtccttcat aaaaatattg gagaataagc 60  
tgttctgaaa tctgatggtg ggggcaactg gcacatagtt tcttaaattct cttccagtac 120  
tcattcaggc tctctccact gagtngtcta atacctg 157

<210> 30508  
<211> 380  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30508

tctttgtggg ttgatgaact ctatcgcaca tattgtcttg atcattgctg acatattctc 60  
aattaggtca gttgcctctt caggaattct taacttttat ttttccccct gctgaagcat 120  
ctagcagttg ctttggtttg tgggtctcagt cctctataa acatattcaa ttgagttggc 180  
tcagagaacc catgggtggg agtctttctc aataaacctc tatacctctc caacgcttca 240  
ctcaaggact cgtcanggaa ctgatgaaat gaagagatag cagctntccc ttctgtagtc 300  
tttgactttg ggaaatattt cttcagaaac ttttcaacaa cctcttcccta aggtttcaga 360  
ctgttacctt taaatgagtg 380

<210> 30509  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30509

attccaacct tttttggtgg ttaagttctg gatattatcc tttccacca ttctgaaaat 60  
 cattccattt ctgataatg ccctaaaata gaaattcaca tcagaaaaac tgtgaccatg 120  
 atggtaaacy tcaacagaga tcatcacctt ctagattctg tatgtatata ctcccttttg 180  
 ctcgatataa caaaaaatac taattaagtt ggtagaatat taattatcca attcatttaa 240  
 agataaccct tttcataatt atcttcttgn acttgattca gaataaagat gcttggaaca 300

<210> 30510  
 <211> 481  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30510

nnaaagacaa gcgttcaagn agnatcttca caccatanan tactcaagcc tntanaaagc 60  
 atgcaaatgg aggaaggaga ggagcatctg gatatatgtt gtttctactc atgaggtatt 120  
 ctagattaaa gaataccttg atcctcaact agttgccaag aaaattctca taaacctaca 180  
 tgatattata ttttttggtt tatgccctac attaaaaata gcccttagtg cattgttagt 240  
 ttggggggtt gactgtaaat tattttggtg tccttttgtt gagttgactg aacgaaaatg 300  
 gagaagagca ctacacagag gagcangatg aacagaatgg agaggaatga agccaagatg 360  
 aggcagttgt agtggatcag attctacgat ggtgcatact cgtaatggta caggctgaca 420  
 aagtgggtcg aatatgaaga gcccgtcagc taagcattgg tgggggggtga aacaaaattg 480  
 t 481

<210> 30511  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30511

cggggaccct tatccannaa nnaaccgctc accctccatn agtcntttac caatggacca 60  
 tatgtcaaac aaacggctct tgtgaataat tgttnggacc cggtgtacag ggagggcttg 120  
 ttgcaggaca agattattgc tatctatgtc aacattaaca atcaatgatt ttttggacaa 180  
 atatcaagcg gactgaaaac aaaacagggc taatgaataa aagaggactt tatcgatcct 240  
 cttttaatct tcataattgt ggcactatgc attggacca aataaaaatc ttaattttag 300  
 tatggcctac caaaatagta taccg 325

<210> 30512  
 <211> 180  
 <212> DNA  
 <213> Glycine max

<400> 30512

atatgcacat agaggtcata cagcaatcat agaaccaaac ttagaccaag catcatacaa 60  
 atgagtaaaa atatacctcg aatgctgtca caataatcac agccagaaag aatgcataag 120  
 tcaataaaat tgggtccatgg tcatatttag ctctccaaa atctgaaacc aaataaatac 180

<210> 30513  
 <211> 237  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30513

tggtttccaa tttttctgat gccacaggc gggatatgga taagattata aaaggaaggg 60  
 ttgaaaaatc tgaaaagggg ggcaaatgg gttgctttaa attttagtg gcctccagct 120  
 gcaacatgct gttaatgtgc cattgcactg ttataacata tgcataata ctacaagtaa 180  
 aagtcttgct ttatttaaac cttttngtgg taaatctgct tattagaact caatatg 237

<210> 30514  
 <211> 492  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30514

gcgcgatatt ctgtanttca acacaanaaa cnaagcnggg aggaactnga ggcgaaaaac 60

ccagggaccg tcattttttt acacggaacc acaccaggng gggaatggga tacaatattt 120  
 tacatcgaga cggacacatt tggggatact aggcgattca ggtatactaa atattaaaaa 180  
 tcgaattagt tgaactttta atttcttaat taaatccttg tggaagagac gaataggcct 240  
 ttctttggag tatgataatc actgaacctg tgagtcacta tctttataag attcgacagt 300  
 cacatactca atatgatata ttctcatact attaagtgat tatatttatg cctctagtga 360  
 tgatgtggta atgagcatat atgcatcatg cagattacat gcatgcacgc gtgtaaataa 420  
 taatggaacg tgccatgtgt catgtgcttg cttctgtcga gttctgaaat cagacattat 480  
 ataaagttgc tn 492

<210> 30515  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30515

aggggacctg actcgcgatc gagccgacgg ggatctcaag gcaccgaagc agcacngtgc 60  
 caaagccnc acgcncctcg agagggatcg gacaaaaaa acccgccacg aaacgaccta 120  
 ggctataaaa gaaagtacaa caaacacggg aggcaacgac aacgacacac aaaaatgaca 180  
 aacgcaccgg ggaggggaac aaaccgacgg ggaatccagc taagaagcag cgggacgccc 240  
 atcatccagc aaccaagctc tgcaccatag aagcaaactg accaaccgaa aaacgcaggc 300  
 accacctggg gggaaaacaa cgaccgacaa ggctgaaccg caaaacaagc cagaacaaca 360  
 acacaacca ggccggccac agaagaggcg gaagaaacgc gcccatacag gcc 413

<210> 30516  
 <211> 303  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30516

atatgaacgg tataagatat tataccaaat aatttttggt tggttaggaa ccttataaaa 60  
 tagttaaaaa aaaaggaaac ctgattataa aaaaaagata tgatttttgt ataggacct 120  
 aatagcatat gatttttgta tagaaacata ataggatagg ataaaatatg atntttattt 180

gctctagaat acagaaacgg tatgaaagaa aaaagaaatc taataggaat agaaaaagga 240  
 ttaacatang anaactaata aaaataatga gaaatataaa ggaacaccgg actcacatct 300  
 tgt 303

<210> 30517  
 <211> 223  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30517

tatggggacc catcacatgt ggcctaggtg gcggtcggca atggtcacaa caagtgttcc 60  
 acatccacaa tgcgcgcata aacccaccat cccctgttgc ccacgtcaac tgagctcacg 120  
 tactcccacg tagcccatat ncctcgttct ctcaacaccg ggtccccatc aatccttcca 180  
 agcttncaca acatccaagc caaacaacat tcacacagca caa 223

<210> 30518  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30518

gggtgctgan ccatgagact actgcaencc nattngnnaa cnaccctgtg tggttgcgcc 60  
 cggcactaca cgccgtgccc tttgtttaat ttgaatccaa gccccatcct ttcggggggc 120  
 aatgcccttc tcattacctc tatcccgggc aagacgatga ggatggagat acccatcttg 180  
 gccgcctgct ccacctcaaa gatccgtccc ccatgaacta cccaacgaa catagtccgg 240  
 cctatcccgg cctcacgcta acccgataaa gaatatgatc ctttcgctga agatagggag 300  
 agatcgaggc gcttgagaga ggttaaacca gtcggggcct tgcaataccg atatatgcct 360  
 actcattacg atggcgccac aatcaattca tccagttcaa ggccggcttg tattacaaag 420  
 gacactgtcg atgggctctt cgatgtttgc gaagatgggg 460

<210> 30519  
 <211> 349  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
 <400> 30519

naagcttttg tttgggtccta tggcatngnn gnnngcatcc ttggatacat ttcttagtgg 60  
 ataantttgg tcctatagaa gaaataataa aacaattcgg agatattctt gcattgtata 120  
 tccccctgc tgctgtgtac agagatccat attctattca ggtgtttgaa ttttagaccc 180  
 tctataaata agatttttca tcatatcagt tntctaagt actaaatata gagaagaaat 240  
 tgctctgttt ttgccattta atttatagaa aacatttaat cttctcaaag gggagtaatt 300  
 ggaaagaatg ggttgccata tttctacaaa ggctgataac tttttttct 349

<210> 30520  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30520

catcaacagc actgacccaa ttattttgta tagaagggtc ctctccttc cgcgagacca 60  
 cagcccttgc gtactcaatt tccaatatcc tttctataa ttgattattc aaaactgtta 120  
 gctataatgc tatgacatca taacacgtag taacaatggt ttgtttccta tgtaagaaa 180  
 taaagattag agaaattgat aagttattgg ttgtataccc aatttcaatc cctggaattt 240  
 caacaacttc cttgtaagt actaaatggc ataaggttgt agatcattcn gttcacatg 300  
 attgaaa 307

<210> 30521  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<400> 30521

agcttattat atgatgcagc atatttaaca gttttcatag gtgatataag agcatttcac 60  
 aacgaacatc atcttttttc tctagattct caaactcata attctcattt tgaaatttgt 120  
 tgagtgttc cagaacttca tccatagaaa gacttaattc attgtctcct tgcacacacc 180  
 gaaaggccaa ccctgtact gaagttagta tccttttaac tacttgggtc gactcaaacc 240  
 caaaggatgg gtctacaagc tctaagct ttactttttg cacctttttc atggcaagat 300

ttgccaagta gcttcatctc

320

<210> 30522  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30522

nnccccggac taacgtccgt cntacggaca ctatagatac tcagcttgag ctggagaaaa 60  
ctggaggagg tttgggtttt acttgctttc tccctgagtg acattgtatt ggtggatatat 120  
gagtgttcat ctagaatttt tgtgcatctg catcatatga atagtgagac aaaattttct 180  
aagtagaaaa gttctcagaa gcgaaactct ctatttaatt gattacaccc tatcgtgatt 240  
gttacccaag tgtctgagct tgccggagtat gtctataccg tttaatcgat atagcctctc 300  
gaatcgatac aaattgtgat gaacaatgct gactattcaa gagttctctt tatcgatacc 360  
atggaatatt gacactctct tcatagcagt caaactccag tgtctatctc ataccttgca 420  
ctacatcc 428

<210> 30523  
<211> 276  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30523

agctttaacc tttggccatc atttctgccc caaggcgtga aaggagagca ttttcggcgt 60  
cgtgaagtgc gtggctacga gtgggacttc gaatattcag gtttgggtgg acttctttct 120  
ctcttaaatt tcgtgggtat ggggttntgg gagatatgat gggtagtctt gctaggtttc 180  
tgctgtatga tgattatttg tgaagaaatt tgttgaaagc ttggtgaaat cgccatgttg 240  
gatgagttaa acatacccat ttctgtttta ggtttt 276

<210> 30524  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30524

tgcgtagccc accatctttt catagnagag ttattttattt gtgtctacca tcacgatcat 60  
 cggctccctt tccatcattg ngggtaccac ctgngccgcc agatccctcc accttttggg 120  
 cgtgttcttt gaaagatecg tccccctttt tgcaaatgtt ctgtaattgc atcctatccg 180  
 gaaccatata aaaattgtac tgatactgcc taacaaaggc aaccattang tccttccaag 240  
 aatggactcg ggaagattcc aagttagtgt accaggtaac agctacccca gtaagacttt 300  
 cttggaagga atgtattagc aattcctcat cttttgcgta ttcccccatc ttctgacaat 360  
 acatcttttag atggttcttg ggacaagtag tccccttgta 400

<210> 30525  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30525

agcttttatn taaactccnc aaggaagnen ctcgagagag cttatcaaag aagcttctca 60  
 acgtaactac ctatgctata aatagaagca tgtgtcacac ttgtggtaac tctgatgaat 120  
 gagagtcttg tgagacacac ttcaaagatc aacttctctc cttcttttcc tccttcaatt 180  
 tcctgctccc cctctctctc ctctctcttt cttttctctc atagaagcat cctctccaag 240  
 cttcttatcc aagcaccttc ttggtggcaa atctccttct tccatggcgt attccttagt 300  
 catatgccat gacaattaac a 321

<210> 30526  
 <211> 227  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30526

cacactgtat taacatgaag ctgacgattt caccaatccg gatgaaagta tttgtgagtt 60  
 tggacttgag tgtttgtgag ccaccttgat gtcaccctaa catcaagtgt tggacctgag 120  
 tgtgtagaag tgatctctat tgntcagaga gcaatctctg gtgtgtattt gatttaattg 180  
 tatacaccgg agagtgattg agagggagtg agaggggttc tcatatc 227

<210> 30527  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30527

ttcnttttgg nttaagctca cattggcatc acccgcataa tatacggact tcaggtaagg 60  
 cagtctgcaa ccacgttgca taactgacga cctaaataag ttgtcatgtc aaacaanatt 120  
 taaaactaaa atataaataa natttaacta atttcgtcct attcaataat atcatatgta 180  
 aaaaacctta ttcaccaaac aaaatatcta aaatatcctt aatttaataa aagtttattt 240  
 taactacgtt ttttcctgtg cgagtaatga aatgatactt aaaaaatatt aatttttaat 300

<210> 30528  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30528

nccttagggg aaattgccga ngtatnctg ngaanaatan annacncaac gctaagggca 60  
 caggtagatc gtaaggaanc cgtttgattc cttaccaaca gnngcgacac ggagggggcg 120  
 cataacatca taaacacaca tatctcagat accttaatgg tgcaatcaca atttacacac 180  
 gcatgacgat gcaggggacta ggtactatca tgcccacgac ggcgtatcga gggcgcccac 240  
 ttcttgacta cagaggaaca catcttcggg ttagaatcgt ggacgaacaa tgcaagaact 300  
 acaacgtggc tcaaggacaa gaaataaaaa gacttccctt cgttggggatg ggagacacaa 360  
 tgcactttct tcataataga agctcactgc atattgaata cgtgcggaac aatcttatca 420  
 ncggagactg taaccttaata aggtcaagag tctacaaatc atagatgtaa cctgggtc 477

<210> 30529  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30529

agcttggtct tggtttanac atgattgata catgatttgg gacttgtag attcaatttg 60

ngcaaaattg gatgagggaa agtgtgatat cgaaaatctg cacttatgca aaattttgct 120  
 gtcaactaag tgcagcagaa tttggctctg tgcaaaaaat gatatgaaat tgctggttgt 180  
 ggaaagagta gcaccgattg ggttctggac gttttctatc agatcccaac ggtcaaaatg 240  
 tagatttatg tact 254

<210> 30530  
 <211> 298  
 <212> DNA  
 <213> Glycine max

<400> 30530

tccaaataaa atatttggga acgtctatta gactataact ctttaacagc tactgtgtat 60  
 ttaacgggtt cattaataag tcagattaaa aaataatttg tcaaattata attttggatg 120  
 acgcttacgt gacaaagtgg acgtttgata ttgaaaaaat taaaattact tattttaaac 180  
 aatataagaa ctaaacgtct tcatttagag ataaaagact caaaatctca gattttaaatt 240  
 aatgggtgaac caaaattatt aataaaaata tataatcggtt ttaaattatt tatttttcg 298

<210> 30531  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30531

atctttgccc aataacactc ctaacatcaa tagtaatatt aatattctaa ctcccctccc 60  
 ctaaaccaaa gttcacttag catcacgctt gttacaaagt attagaatgt cgcaatatct 120  
 ttaatgtatc tcagattatt gttaggatca tattgcaagg tgtgagaagt gagtatcaca 180  
 atgaaagttt ggcattctaa tgtaaggttt attaagcctt aaccttgagt tctcaactac 240  
 aatggctnngc ttttgtggtg tagttcttcc cagagtctta ataattggta ttagagcttc 300  
 ttaccatgtc tctatgct 318

<210> 30532  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 30532

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ttctcacgga ggtgagctta gttatgagag ggggtgtgtg agctaagctc tagcttctca 180  
aggaagtttt ctcaaagaag cttctcaagg aagttttctc aagaaagctt ctcaaggaag 240  
ctacctagtc tatanataga agcatgtgta acacttggtg taactctgat gaatgagagt 300  
cttgtgagac acaacacaaa gttcaacttc tctcctcttt cttcttcaat ttgtgctccc 360  
cctctctc 368

<210> 30533

<211> 277

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30533

ttttgggggt ggccatttct tggatggcct tgattttctc aaggtccact tggaccccat 60  
ttctaccaac tacaaaacct aagaagacta tattatctac acaaaaggta cacttctcta 120  
tatttgcata gaggggtgttt ttctaagga ctgaaagaac ttgcctgaga tgtcctaagt 180  
gatcatctag gctcctactg tacactanaa tatcatcaaa ataaacaact acaaactctac 240  
ctatgaaatc cattaagaca tgatgcataa gcctcat 277

<210> 30534

<211> 293

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30534

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gctagagctt agctacacac cccctatgat agctaagctc acccccatga caaaaaacat 120  
gaaaataaca caaaaaagtc cttattacaa agacaactca acatggcccg aaatacaagg 180  
ctaaaaccct atactactag aatggccaan atacaaggcc tagacgaagg aataacctat 240  
tctaatactt acaaagataa gcgggctcat acttagccca tgggctcgaa atc 293

<210> 30535  
 <211> 367  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30535  
  
 ccaacctggt aggcctagaa cctcctccac caaggaaggc ctaacctact ggaaaacatg 60  
 gccactggac cggagaagga aaaagaataa tggaaaacgt cccttcaagg aaaagatgag 120  
 tcaagaggaa gctcaccacc atangaagac atgcgataag atcttggatg tatgagaaag 180  
 ataattggca agagaaggag agaaagggta cgatatcttg tgccctcaa at gaggtctgaa 240  
 ctttgaaagc gaattcttaa atgatcaaag gtgacaaaat gcacacctat ggcttctatt 300  
 ataccctaag ggcacaaatt tggaggaaat tgaatctcta taacaattca cttgaattga 360  
 catgaac 367

<210> 30536  
 <211> 474  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30536  
  
 naacttaaga tcagatcaac cttnaaaaag ccccagctga aacanngtca ggtgcggggcc 60  
 caaccttaat tatgggttcc aacaagnnnc ccaaatccag gagtaccatg aagggataga 120  
 gaagacatac tgttgataaa caccacaaa atatagttat ggcaaagcat tatttttcca 180  
 acctttttaa aaatataaaa ttattaataa tatttccact aattaccata ataatatatt 240  
 aatggtagaa atacttaatt cttttaagt gataacatan agcctcttaa naaattgtga 300  
 gcaagccaac ttgttatcta gtccgttctc atacacattc ctaggagnat gtatcatatt 360  
 cattttcaaa tcanaataag aaataacata tcatataagt tcttaggtgt caggtcaatc 420  
 ctattgatat caataaaaaat aatttaatac tgctattggg tgtctagcac tcag 474

<210> 30537  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 30537

agggagcgct ttgcattgan annchnccnn nnttngnaaa nccgccngga ngganacana 60  
gaaaggcaca agcaggcaac aatttttttc gaaaaaccac cccaccaaga gggggcatcg 120  
gaaaccaacg cacacacccc accaaagaaa cccacccccca caaaggngga ccgggaggga 180  
gngaagaaca ccaaccgcg gnnccggggag cagaangacc accacagagc acgagaagng 240  
agacnctacn gcggccccc caccgcgag aagaccccg gaacaacgcg ggaaacaagc 300  
aagngcccgg aaccaaccgc ccaaagcgg agaccataac cccgccggcc gaaccggaga 360  
cggcaaacac acagccaacg gaaaggaggg accaaanaca cccgcaccaa gggaaggacg 420  
cgcaccggac accgaccca aaaaagacg 449

<210> 30538  
<211> 491  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30538

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ggagaactct ttttaactttt ggagccgaaa ccggggagggt gcaaatacaa attgcaaatt 120  
gtctctaaat caatttagcc actagtaa atcgattacat ctctggtaaa tcgattacaa 180  
gcggattctc tcatagttaa cgcttccaga atttcttcaa ctaaaaccaa agtataggga 240  
tctgagggct acaatantgg atttgggtcat ccgtgtacac ctaactgaag tgggtgaaga 300  
atatagcccc tctaaggtaa ccccaactat gttgcattgg acttatgctc ttcttgtgcg 360  
tgtttataga agaaaaactt atttatattg tatccttgcc aagtgataac atttctttaa 420  
accatcctg ctactttctt aatgttcaga agcttatcct cagcagagat tgatctttaa 480  
ccatctgaac g 491

<210> 30539  
<211> 138  
<212> DNA  
<213> Glycine max

<400> 30539



agctcctttc ctttttccac tcaggtgtcc aagtgtggga tggcataggg tggaatggtg 60  
gacagcctca gtaactgcta ccatatcctc atctggcatc atgtaaagag atcctcgctt 120  
ctttccacga gccacaat 138

<210> 30540  
<211> 240  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30540

aagattaact tcattcatta tatgatgaat tttaggggac gtttaatatc catcctcatt 60  
ggagcacaag ttgcacataa acaatggctg agaacatgag acatanatgt tannggtttt 120  
agaaggaaat cctgtcatca nttccaagtt attgatattt taagttcttt attttanaat 180  
tactctattt tataaatttt aagctaatta gaattgtata tatatgtgga caatacatte 240

<210> 30541  
<211> 188  
<212> DNA  
<213> Glycine max

<400> 30541

tgtgaaactc tgtctgtcac atcattactt aatggacaaa tactaatggc aggtaccaaa 60  
gccaaaaaat gagaaacgcc caatagagca ataaaaataa aaattaatat gtagcaatct 120  
gaataagggg tatatcttag gtaagaaaaa gatattttaa ccaattattt tatgaatate 180  
atcttaca 188

<210> 30542  
<211> 376  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30542

gccttaaaaa ggggtggnntt gcaccttctc gctattccta tattctggct tagcgagcgt 60  
ccgctaagcg caccactcat gggctaagcg cgaggaaaac actagaaaaa gatgagttgg 120  
acaggttctt tagcgcaccg cttatctact agtgcceact tcgtcatctg taacgagaaa 180

gctgcgtaaa gctgaatcga tttagaagaa gttgactaag atcagagctt tgctgttaga 240  
 ttttaaagag acaagtcaag ttcaagagtt tgaagatttt gtgctgaaat tgcggaccaa 300  
 ctgaacagag ccgttgngct gaatgattgg aggatggaat cctaaggagg tcatctacac 360  
 tgattntgat ctcatt 376

<210> 30543  
 <211> 110  
 <212> DNA  
 <213> Glycine max

<400> 30543

tgtctgccgg gcagacaacc acaaatcatg tttacaaatc attatgaatt atggcattcc 60  
 tcgaaagtag ccgtatgatg cgtaccacca agcgtcatag gcactatacc 110

<210> 30544  
 <211> 186  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30544

agcnttaacc aagangggat ggtccatttc aagtacttga aaagataaat gacaatgcga 60  
 acaagattgg attgcctagt gagtataatg tgagtactac atctaattgtg tttgacttaa 120  
 ctctttttga tgtagatgga gaagccgatt tgagaacaaa tcctttttgaa gagggagaga 180  
 gtgata 186

<210> 30545  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30545

nggcgattca gttgcaagtt ctacgnccac tatnaatact cagcctccat cattgagtta 60  
 agtccaccag gaggaatctg ttaacttggc ttgatcaaga ttaggctaaa ctatcatgag 120  
 gcaatcgggg ttaatatctt aggaaacaca ttaggacccc ttgaccttgg ttgaatgaaa 180  
 atatttttta acttcaggcc cctataagga agccacgtgt ttctcacatc attctctccg 240

tgattttctt ttgcacagat agttacacac ttgtcatatc atgctatctt acacaccgac 300  
 cctattgctg aatagcttac caatacaciaa gtcctcagag ttcatactcg tcttaccgtt 360  
 atctactttg cgaccgggca cttgcgagca acatagccat cagctgggta ataagaaaat 420  
 gattttacaa attttgt 437

<210> 30546  
 <211> 193  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30546

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 acatcctttg ataatgttat tgtcgtttga atttgctacg agctatcgtg gtaatttaga 120  
 gcatctagat atatttcggg acacaaacag acatcctggg ataaagacat tgtcgtttca 180  
 atttggtcag agc 193

<210> 30547  
 <211> 539  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30547

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 tngggagagt ctcgaggatg accgtttata antctgcatc cgagnaaaaa ganagggggg 120  
 cgngaataga cnaacagacc ccatcctcaa cngggagcgn cncgaaaaaa aacgggacgc 180  
 aaccggacga cccgggaana aaggggaccg gccccgcaan aggcgcacga gacacgcagg 240  
 cggacacaaa caggaacagc ncgcggacag ggaagaccgg aacacggaac agaccacccg 300  
 agacacaacg gcaaaggcgg aaggaaaaag gagacgaagg caccagccg gcaaagagcg 360  
 gagcagaccc ggacangaaa acaggaccgc agaccggaca cgcagcgca aaaaggacag 420  
 ggccaagcaa aganngcgca ggagcaggag cagcgcgaac ccacgccgac gagggccnag 480  
 acaaganggc aaggacgcaa gaccacccg cggaggacaa cagcgaacgc caccgcgcg 539

<210> 30548

<211> 302  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30548

agctttgttc aaaaatcaaa agannnaact ctgcgagaag gttttcaagt tttgtaaaag 60  
 ttataactct ttccaatggt ttccattgac tagacatgaa gagtctataa aagcaagacc 120  
 ttgacttgca tttccataac tttttgactt aactttttta caattcttta taacaacttt 180  
 tgagaaacct ttgctaactt attattcttc ttcttctttc tttgcaaaaa gctttcttaa 240  
 agtatttggg tttccaaacc ttgaaaacaa aaatgtggta ttcacttttt tctttctctt 300  
 ct 302

<210> 30549  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<400> 30549

cagcatcatc tatggcgctca gttatcttgt caacattggt gaggttggga tcaaagtgca 60  
 cttttgtcta ctccaaagca agaacaacaa ttgctttttt cacgcctact accaatttga 120  
 agggcattcc caacagagtc agaacagctt gtgcatgcca ttcctttaat cctcactcgg 180  
 cacactggta tgtcctgctt atgaagctca ttactcgaa acccactctg ctctatgctg 240  
 tcttttatgt gttgcaccta caaaaagaat atcaccaata ctttggtcag tgtaaattatt 300  
 gaagtacacc aaagacttat atctattagt taatatacat aattg 345

<210> 30550  
 <211> 290  
 <212> DNA  
 <213> Glycine max

<400> 30550

gaagcaccgg acgacgcata cgaccggggg acaagacaca gaggactttt tcccacaggg 60  
 cgccgggggg gcaaacaacg ccaccgggag ccaccaacg acggagccag aggaccgacg 120  
 agacaggcga gaccaccaca gacggacccc ccgaaggaca aaaaggggga cagaaccacc 180  
 gaagggcgca aacgaacca aaaaaacaga ggcaaagcca aagccccgaa gaaggaacaa 240

gaaaacagca acggaaagga gagacccac acggccagaa aagcgcccc

290

<210> 30551  
<211> 303  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30551

ggtaggnctt gnangatcaa atgnaaacgg ggaaagagga agaaattctc tttccccgga 60  
aaagcggggg tattaaactc tcaactcccgga tcctaacgta ggaataacat ggcgcccgtt 120  
cctcacagtt gattatctag gagaaaaaat ttgctttctt aaactagcta aatatttcag 180  
attccgaaga acatgcacat atctactaca tggttaacta attttattgt tatccggttaa 240  
tccacaaatg gaactctgcg tcgaagcttt ttggtgctat cagctcaata ggacataatc 300  
tca 303

<210> 30552  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30552

agggacgtct ctttgtanan caccggcaat ncagctcggc cccgggatcc tctagagcga 60  
cctgcggcat gcaagtcgtc catcataccc gaccnccgca ggggcgagga tgatganaca 120  
catcttccga ttcaattgtt acatcagata acaatctatt tatatttaaa atcttgggtg 180  
tatatagtcc agaactttgc taacttccga tagcccgag tattagcata gattgagatt 240  
aagaattcgg agggatacgc tactgatcgt ttgatgatt gcactgaata tgcggggcta 300  
cttggcctga cgcataatagg gagccaaaaa agccgcgata ctctgcggca taagaacctt 360  
tctctttatt ggccctccatt ccaccgaaca catggggaga tttccttcca tgtaaatact 420  
g 421

<210> 30553  
<211> 484  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 30553

gcacnagng aaagtccccga nagatnntct nnnnntnaga nacnnaacnn cagagngaaa 60  
 caagatggaa gtggaaggac attaccttat ttgtccaacc acggacaaaa ccgagagggg 120  
 ggcgaactng gaancaacct atcaaacagc nccnganncc accaaacggt gttggatata 180  
 catactttat ctcaccctcg actccattta ggatggctga attattcagc gaacttgaat 240  
 attattcttc aacttcaccc tctgcataca tagccccac ccttattcat gatgatgctc 300  
 acgactaaaa ccaagactac tatgtgccgt tataatgttaa tagagaacac aacgaccagg 360  
 acagttcctt cgtcgaatat ctctgttata tacgaataat gcgaccctga gcacaacccc 420  
 gaacttatat taggtctctc tgctgggtac ataaagagca aaaatgaata aacatattct 480  
 tatt 484

<210> 30554  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30554

aggagctatt cgtttgacac canccnnnt ggaaacacgc gccgagatcc ttagaggcac 60  
 cagcaagcng cagctttttt tcatggcctc cnanggcgga gagcgggggc tatactcatc 120  
 ttcagctcga agcggcgtct cctctgtctc tttcttctcc attctgcagc cgttcatctc 180  
 ccagaagcaa aggaatccat tgatgaaaaa gatcctaggc ctacaagctc caatggagct 240  
 tacatcatgt ggcacaaaga tcatttttga ctacgtgatg ttcatttgcc tcctccatcc 300  
 tttgttccg tgcattctct ataacaacgt gagcttcac ttattctcca tgtatatact 360  
 ccattgtcct gtgggcaagg agaagggtac aaaagactcc acaaagataa atcgattata 420  
 tctaaatcta cacttgtcta gcattac 447

<210> 30555  
 <211> 518  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 30555

naatcttacg tcangngtan gtacnantnc nananttnag annacnntcc ngcgcccaga 60  
gaaggagngc acggaggaaa ngcttanctt cnctanaata cngganagca annnncgaac 120  
gacgggcgct gttggccaac acannaaagc accacacgaa gggcagcncc acccaagaag 180  
gccnaacctc gccttganac gaaggacca ganngccct nncacctacg aaanancaac 240  
tttttggtgg aagtgtgtga gggaacaacc tccccactga gtgtgatcca cgaggcgctc 300  
caaccagaca tactgtaggg gggggttaat atccatttat ttggaagggt aacttgacag 360  
ggtgtgaggg tctatctgta ccgggagatc gatcttcccc cttacctttt tgnngggacc 420  
gtgcaaggca cgaccaccca ttgacttcgg cttatgtggg aacattgaat ggaaattctc 480  
caagtgtctt tagcttacgt taccagaac catatcan 518

<210> 30556

<211> 332

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30556

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aagagtgggt ntcgaaatct gcactttatg cagaattttg ctggttgaat gtgcagcaga 120  
attttgtata agtgcagaaa aatgcttggt tatggatggt tgtgaaaagg gtagtacata 180  
tggggttctg gacattttct aacagatccc aacggtcaaa atgtagactt atgtactaga 240  
gacttccagt aaaatttttg agtcgatcca acggttaacg aactggaaca aagagaatgt 300  
tactggggta attgaatgtg anaagctgtg at 332

<210> 30557

<211> 353

<212> DNA

<213> Glycine max

<400> 30557

agcttgtcta ttataatta tattgagaac aactgaggag tgttgtgttt tgtacaattc 60  
atacataaag tatgtgttaa tagacttctt ggattgtgcc tgaatgaaga ggaaaatgcc 120  
ctgaccgact cttcagagtc tacgtcttgg ggataaatac acccggtttg agtacttctt 180

tatgcttgaa ccaatccac atgattggag cattctactc aaacaacgtg accctaacta 240  
 gtctccctat gattttacct agtgagtgc ctaccctacc actgtgtgga ttgttatggc 300  
 atgcactcct tggcaccga cgatgtcttt actaacatgg taccacattg cat 353

<210> 30558  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30558

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 tgtttctcaa ttgattntgt tcatcaaate ttttttttc tttttttgct ttttatcata 120  
 gtccaactcc ttcacaaata tcaccactt tagcaccgac atctcattga attcccactg 180  
 ctgacctctc caacctcttg tgtcccttaa tggcatcgt attcactcct ccctcgaagt 240  
 ctcttgctct ttctcctttt ccatcattgg ttggatcttt catgaagcta gtgcgatgga 300  
 ttgnggaggg gaggagagtg tgatatagat gaccattgtc atatctaatt tggag 355

<210> 30559  
 <211> 218  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30559

ttattgatat ctntatagc gagcacggat tcttgatag acattaatgg ggatcaaagt 60  
 ttgaatacat ggagaaatat gcattcttgc ggtgaaacta ctccacacct atgtcacaaa 120  
 actttatctt atgagatgc tctctataa ctacgatgaa ggaatcaatg attattctca 180  
 tttgactttt atcgtaaggc ttaactttta tatatata 218

<210> 30560  
 <211> 130  
 <212> DNA  
 <213> Glycine max

<400> 30560

tgatcatcaa accaccttat cccttgaggt tcttcaaat gtttatgtat atagtgtgtg 60



gaaggtcaaa tggaaggttc tccatcaagt gaaacaacac aaacttatgg aggtcagaaa 120  
atgttgatgt 130

<210> 30561  
<211> 187  
<212> DNA  
<213> Glycine max

<400> 30561  
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aagcctagga ggaaagacgt atgcctatgt tgttgcgat gaattctcca gatttacctg 120  
tgtcaactat atcagagata aatcatactc ctttgaagtt tcctggagct gatctacaac 180  
ttcatag 187

<210> 30562  
<211> 383  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30562  
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tcttcaaaca ttcggtcata ggacttgcta tagagctaaa attctggata aagcgtecat 120  
aaaatgatgc aagaccaatg aaagatctca cctccgaaac tgttgtagcg ctcggccaaag 180  
tcttgatagc atccactttt gcntgatcaa cggatactcc atcttttagac accacatatn 240  
caagaaacac caccctttca accaagatat cacacttttc ccttctccca tagagttggt 300  
gtgctcttac ggtctcaa atttgtttca aatgagtgaa atgctcctct atagattngc 360  
tatacaccac tatgtcgtca aga 383

<210> 30563  
<211> 252  
<212> DNA  
<213> Glycine max

<400> 30563  
ttagatatat gtttatgata atacatgttt actctttttt tcttagcata taacgatact 60

caataagtga cgttgaagat gttatagtat agctctgata tgatattgca aattattcga 120  
 gtcgatgtat atatatatgg gttgtgtctt gtaaacattg ctatgacatg ataatatgat 180  
 atatgacaat cagtgaagta aacagtgata tgtgagctat gaactgtgta gtcacattcc 240  
 ttggaaaatc tt 252

<210> 30564  
 <211> 208  
 <212> DNA  
 <213> Glycine max

<400> 30564

ttatcaagta acacaagttg agttttattc acaacattac agtatatctc tcttatctta 60  
 ctgagagtga ttctcctata ttcttgagtg attcaagaac accttggtg tatcaaagga 120  
 ctttcacaac tctttgtgtg tagtcctcgc tggaaagagt gattcattgc ttcctttcat 180  
 catcaccact tgtctttcaa accacaat 208

<210> 30565  
 <211> 303  
 <212> DNA  
 <213> Glycine max

<400> 30565

ttgctagaga cagtgtcaat gctatgtata tggtttcttt ctttgtggca ccaaaggctt 60  
 actcatatca gtgagaatgg gctgaattgt ttagccaaga aggatatgct tctacgattg 120  
 aagaatgcaa atttagagaa atagtctcat tgcattggtg gtaagaaaac caaagtatcc 180  
 ttcaagaaga atcctccctc cagaaaatct gagttgcttg aatcggtgca ttcagatgta 240  
 tgtgaccctt tgaaggtgaa atccttttagt ggtgcacttt attcttgtac cttcattgat 300  
 gac 303

<210> 30566  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 30566

gacccgggat cttatgtcgc cgcagctggtt acttacattg accctgcacg tgctggaact 60

ctttaatggc ttgatggcct atgcaattga agccttgagg aaagagttgc cttgttgtgc 120  
 ggatgattct ccaataacct ggtcaactta tctagaaaat cagacccttg aagtttcagg 180  
 actggtctaa acttcaagaa aaaaactgtg tcatcagaga tcatgagtgc catggctaga 240  
 gttgaaaaca caattactga atttgccatt gaagcatact catgagttct gcgtatacac 300  
 acacaaatgg ctattgaagg aaacagactt gcagagctgt aggcattgctt atgcaagact 360  
 tcctt 365

<210> 30567  
 <211> 323  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30567

nntgtgtggg agattcagat aatcatctaa agattcatag agtggcttgg aaggagctat 60  
 gtaagcccaa gggcaaggga ggcttngct ttaaagaatc cataaatntc aatttagcct 120  
 tcttgatgaa gagcgggtgg agcttatgtt cgaatangat gcgttgtggg tcagaataat 180  
 cagagaaaag tatcactgtg gagaatcttt gatcccagat attgattgta ataggtttga 240  
 gactaatttc tgggtggggcc tttgtaaaac ctggcctgag gtacagaaaa acctttgctg 300  
 aaatatttgg gatgggaaca atg 323

<210> 30568  
 <211> 303  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30568

gatgctcana aacatcaata tctatcactc catcagtagg tctgcccaga tatttgtaa 60  
 tcacagcatg ggagaattta acacactntc ctctgacaaa caccttntga tactcatcac 120  
 tttttctgtt agatatgtca gagggaatgt tgacaatgaa ttccctgact aagccttcat 180  
 agcaatctcc caacttgctg acagtcttca gcagtcacgc agccttgatg aggtccatga 240  
 tctccttgca atccaatgca gctctttcca gttctctttc caaggccagt ctctgattgat 300  
 aca 303

<210> 30569  
 <211> 276  
 <212> DNA  
 <213> Glycine max

<400> 30569

tgtctcagtg gttatgcgag accgagacca acatgttagc tcttatcagc aagtaccaag 60  
 aagaattaaa tctagccacg gcccacgagc acaaagtggc ggacgaatat gcccagagttt 120  
 ggttttttag gaaaaacgcc ataactaagc gcaccccaag gcataccttat cgcaccagat 180  
 ccaaattctag gacgatgggt gaccaagagg aagtacagga acagatgaaa gccgacatgt 240  
 cggcttatat agagcaaagt tcttccatga tggatg 276

<210> 30570  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30570

aaaaanncga cccggtcctt aagtgacgcg gctgcacttt attctctctg aagactgata 60  
 ctgcttttaa gcatatatat actccaatgg tccatgcctt actgctaaat gtcaaaaaga 120  
 ggcaaccttt aaattaccca cggggaagat ttggggccaa tagctcctcc tggatgaagaa 180  
 atgatcccat gatgaacact tgcaggcttc ttgaaacata gtattgcgcc actccgcctt 240  
 gttgcggaaa ataggagggtg aaaagaatca tacttctcca ggcattgcaa atcggcacag 300  
 gcaaagaga 309

<210> 30571  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<400> 30571

ttacgtgtat gattctcttc atagagtttg gccctcgaaa ttgttatgag gaggcctgta 60  
 tatattaatt gatgcttagt taattaagac tatatcgaat agttgttacc gtgataatat 120  
 cattgcataa ttttgatttc tattcttcca atacaaaatg gaaggttgag catggattat 180  
 tttaaaacat tgtcaagtag gattgcagca atctcaatta tattattgtc atatgaaaag 240

acattgagac atgggaaaaa ttttatgc

268

<210> 30572  
<211> 335  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30572

aacctgtact gtgagagcaa gcgcgagagc tcgacgacaa ccatgactac acggtgtaaa 60  
cttgaaggga gggggcagtg ccatgtggcg accggtatgc gaaaagtga gtggaggtct 120  
caagatgaaa gaaagtggaa actaagtggg gcggaagtta actanacgca atacaatatt 180  
taaactacac atataatagt aactttttta tgaaaaaata ttatntaggg tatttgctta 240  
atctacttta tcgtgaaaga aagtatgcaa catattatca aagttttaat ctagtgccgt 300  
aaaatactta ggcttttcta aacactataa aaaac 335

<210> 30573  
<211> 399  
<212> DNA  
<213> Glycine max

<400> 30573

atgggtaccc atcagatgtg gtactaggtg gttgtttgtc gatggtgcaa aacaattctc 60  
cacatgcaca aatcacgtat aaacccacca tcccctgttg cccacctcaa ctgagctcat 120  
gtactcccac gtagccctta tcctcgttcc tctcaacgcc ggggtcccat caatcctccc 180  
aagcttccac aacatccaag taattcaaca tccaagcctc atgaactaac acagccaaga 240  
aaatagggca gaggcagaaa actctgcccc aaacacaaac cgacatcaca gcttttcaca 300  
ctcaaatact ccagtaatat tctcttcggt ccaattcggt aaccgttgga tcgactctaa 360  
aattttactg gaagtctcta gcacataaaa ctacattat 399

<210> 30574  
<211> 296  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30574

tggtgcacaa cacgttttcc acatccacaa atcgcgcata aaccaccat ccccttgttc 60  
 ccacctgcaa ctgagctcac gtactccac gtagccata tctcgtttc tctcaacacc 120  
 gggccccat caatcctccc aatctttccc caacatccaa gtgactcaac attcaaacia 180  
 cacataccat cacagccaag aaaacanggg aaaggcagat aattctgccc aaacaccaac 240  
 caaaatcaca gcttatctca cttaaaggcc tcagtaacaa nntccttctg ccaatt 296

<210> 30575  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30575

cctccacggg gtataatgat atcagcgtac ttcttggtgg gaagaataaa gtcatcanaa 60  
 gctggcttca caaatntaga atactgcac aagtatatat tataagagac agttactaat 120  
 atacgggtaa caaaaaaagg gaattactaa tattggtaga cataaaaaaa acgaaatatg 180  
 ttagcttgat ttataatcat aacctcaaaa cagatcattg aagatntaat ntcatanaga 240  
 ctgacttctt tacatgtttc taatcaatga aagttcataa cagcctctca gcaacatgaa 300  
 ctataacaac atttccaagt cttgaaatgc agtacatg 338

<210> 30576  
 <211> 186  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30576

gcattcaccc ctccncatt ntcttgacaa accataaata attnttttat agtcgtaacc 60  
 ttattgtatt gcaacttaac agcacacaac aatcacttga taaataagtg gcttcagctc 120  
 ctatntctta gttttntaa ttaccataac ccacagtga caataatgct aaagcacaat 180  
 accata 186

<210> 30577  
 <211> 522  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 30577

caaaaacggg tggtaagacg tcngcacagc acatcnggga attnagctcg gacccgggat 60  
cctctgagtc gacctgcggc atgcaagctt tattgtctga taacgacaaa gagtacactt 120  
catcataatt caccatgttt tgtgaggaag cangcattga gcatcaatta acaactcctt 180  
acaccctca acaaaatggg gttagtgaag gaaaaaattg aaagataatg gaaatgggtca 240  
gatgtatgct tcatgagaaa gggttaccta acgaatatta ngcagaagct gcgaacactg 300  
cagtattcct gctaaatcga cttcccacca aagcagtaaa tatgaagact ccttttaaga 360  
cttggatggt ttataaacct tccttgaana atttaaagta tttggatgct tgtgttttac 420  
ttatgtgcca cagattaaga gagacaagct agacaagaaa gctgaacatg gtatctttgt 480  
gggatatagt tcagtatcta aagcttatag aagtttccaa cn 522

<210> 30578  
<211> 311  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30578

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gacatagact ttcagagttt cttgcctaa ggatgtgtga tgcttcacat ttccattgca 120  
gtgtggagat tcttctttga gaggaagctt gnggatcttg cacatgaatg gcctangcat 180  
gttgttgggg acatagcatt ggcaatatca tgggtctttt ttcttgtgta cacatggaga 240  
gagaaatatg attagttaat ntactttata attgtgtaag ttttttgtgc ttgtgggtgt 300  
agaaacaaca t 311

<210> 30579  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30579

tagctttgat gtgtgcgtac ccaccatctt ttcatagtag agtatcgata atgtgtctac 60

catcacgatt atcgtctccc ttccatcat tgggggtacc acttgggccg ccagatccgt 120  
ccaccttttg ggcgtgttct ttgaaagatc cgtccccctt tgtgcacatg ttctgtagtt 180  
gcatcatatc cggaaccata tcacaattgt actgatactg gctaacaaaag gcaaccatta 240  
agtccttcca agactggact cggaaggat ccaagttagc gtaccangta acagctaccc 300  
cagtaagact ttcttgaag gaatgtatca gacattctc atcttttgcg tattcccga 360  
tcttctgaca atacatcttt agatgggtc 389

<210> 30580  
<211> 415  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30580

agcacggctg ggnnacatga tatatgtcan gggtttgggt ttattttaaa gggaataaaa 60  
nggggaattg tatcatgaga aatgtctgcg gggggtntg aaccatnng cgggcgccga 120  
agttgacagc gtgggcattc tccctcctta cnntctttgc accagttgct tccaattctt 180  
tttagcattt tggcacttgt ggagggaaaa cgtaatcgaa cttccctctt ttcaaccata 240  
cttcaattct ttcctcggcg aatacttggg ccgcgaagct ggacggcatg taacctacca 300  
acttctcata gtaaaacact ggcaagggtg ctaccatcat cgtgatcatc tccctttcga 360  
ccatgggagg ggccacttgt gctaccaggt cactccatcg ctgtgcgtat tcttt 415

<210> 30581  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30581

gatattaaaa attgactata atcagttgag tggcagtaca ncgaaattat acaccaatta 60  
ttacaagcca aagtctctga acattttttg ttgcttcttt ttcattcttt catgatattg 120  
gatcaaatg gtccccact tcaatatttt caattcgaga ttgactcttc tcatttatag 180  
caaaagatcc aacatgacac ttttgctttc acgtacgaaa agcgaaatgc tgatggcctc 240  
tatcataaat acacactact ctatacaaac aatgtgtaaa acttcacctt agattttcat 300



gtaactatgc caaaatattg caccgcgcaa aaacttataa cgtttccatt tcataacata 360  
 tgtcaggact accgagacca tcatacaact tctatatttcc acaaagcaaa tattga 416

<210> 30582  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30582

ntattcaaga caaagcaatt aaagatattc aagatggatg atctagacaa tctctagagt 60  
 cttagaaagg gtatattaaa taggaaggga attccaattg aagtagcaaa tttggcctgc 120  
 ataacatatt attatgtaac atttagtgca tgtcaacatt ntcaagtgtt aataacagaa 180  
 aattaaatac aactccctgt taagtcgact taccaaaatg tcatcccata ctangtcctt 240  
 tagagattct gacacatctt ttcaatttct atgtagcata ggaatctttt ctogaactac 300  
 gacccccaaa tagttgtgga acttttattt tt 332

<210> 30583  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30583

tatcttgtat gtcttggatc ttcttcatca atgaattcct ttgcttcttg aggtttgatt 60  
 gcagcgaagt ggagaaggag aaagatgaat ggagatgcca cttcaagtag aagatgagtc 120  
 tagaagaagt tcaccaccat aggaagccat ggataagagc ttgaaggtag agaagatga 180  
 atgaaggag aggaagagaa gagcatgaaa tttagtgcct cttagaaga ctgaactttg 240  
 aagtttaatt ctcatatgat caaagttgaa aaaatgcaca cacaagacct ctatttatag 300  
 cctaagtgtc acacaaaatt ggaggggaaat ttgaatttct attcanattt cactcgaatn 360  
 tgtggagcca anatatcact aattatgatt ag 392

<210> 30584  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 30584

tcatgatgaa tcaagagtga ttcanagatg ttttgatgat atctaagatg ataacaaaag 60  
atgatgacaa aggtgatgac aaaaagctca aaggtcaatt aaagaatgag ttcaagatat 120  
tcaagataga atcaagaaca cttcaagatt caagaggaaa gttgatttca agaatacaaga 180  
gatcaagatt tcaagaatca agattttaagt gatcaagatt caagactcaa gattcaagaa 240  
tcaagagaag acttactcaa gataagtatg aaaagggttt tctcaaaaat tgagtagcac 300  
atgcattttt ctcaaaacat gtttaccaaa gagttttact ctctggtaat cgattactag 360  
attgttgtat ccgataccag tagcaaaatg gttttgaaaa aaaaatcaaa tgaatta 417

<210> 30585  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30585

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tatgactgga tgaatcttgt aatatttgga ttaacaacat taaaattctg acacagaaat 120  
acacaaattg agaaatgaga tgattatgca ggaaggcaaa acttttttcc caataataat 180  
aaagaaattc atattcacia tagaagctta aaaaatatct taagtagggg aaaaaatnta 240  
ctcatgttca caatactttc aatagagtta aacatctagc atatgataga agctcatttg 300  
ctattgctag gaaaaggctt atctcattat ggcgaggcaa caagctccag gaatataaga 360  
aaaggaaata aactctcacc agtttttagct tacatanngg gaacataaaa gcttacat 418

<210> 30586  
<211> 307  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30586

gcttgtacaa gcacataaag ganaagggaa actgatgaat gtgtttacac atcctttgca 60  
caaaagatta ataggcctaa ctatctaaaa acagtcccca gtggagttgc caattgtcac 120  
aacctaccct ttggcgggtg atgtaagctc cattggagct tgtaggccta ggatcttctt 180

cattaatgga ttccttcgct tcttgaaga tgaatggcag cgaaatggag aaggaataga 240  
gagaggagat gccacttcac tgaaaagatg agtctacaag aacctcacca ccatangagg 300  
caatgga 307

<210> 30587  
<211> 384  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30587

tttagatcag aacttctaaa tttaggggtct ttggaatccg gacgcgaaca caaatatatg 60  
caagtaacca tagatattta agaataatat ttgttaaaat acattntctt aatcgataat 120  
aaataaataa ataataatatt taacatatat ttatatataa aatgaataat ttgaaaatat 180  
atatattcat actaaaaatt aattaaacca acttatttat atataattag agacatttgt 240  
ttatgcagggt atccgttaaa ctgttcaaat ccaatataaa caggatntat ccattntact 300  
caaccaacat gcacccatgt tctggtcagt cagcgggttg cctgagtcca gtctaaaaca 360  
aaagtcatgt gattnttcat ttat 384

<210> 30588  
<211> 438  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30588

ttgcacatta nactccacat ttatctctat agaaaaaat atattaatac ggaaccctag 60  
ctacttttaa aaagacgcaa caagggaatg tttntctctt ctgttcttta caaatagcta 120  
ggataatgat ttttgtacaa ttattctgtg tataacagtt cctttgattt ttgtgaaata 180  
tttttttgat atacatgttt atgaaaaaat aaaatttaag tgagaaataa aaaaaaatc 240  
atatatgata atgagatagg atcgaagtnt anaatttgat gaaaccttaa ccgcagtgtt 300  
agtagtaaaa agaactctta cacatgcaac aanagtcgc taactgctaa taaatatatc 360  
gatggtgaca agacatagag tacangcttt ggggttggtta gttaaaacat gttcacatg 420  
acgtagtaat tacaaaaa 438

<210> 30589  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30589

caagctgnngg tctanntcta aggattgagc atggcatagg aagggttag tatgttgaat 60  
 ggtangaaaa tttgataatg atcacctcca cagactctnt gacgctcaac tttggaataa 120  
 gagaaataaa ataaaaagtg aagattaaga agttcatata taaagggtaa tacatctcta 180  
 tatagtgatg attttggcgg aaaaaatatt atgtactctg agagcatgtg acctacgaag 240  
 cttattaata aggaggaaat ccatgcaatc tttgtgatat agagtagaaa gtacatttaa 300  
 gaatgtgttg ctgaacttgc tcataattga atgtagagtt aacaattcag gtgacaagta 360  
 taccaagtaa tgacattatc tatctggatt ctggagaatg aatatgagca tg 412

<210> 30590  
 <211> 279  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30590

tagganaatg atcttagagg atttatatat gagcaacttg tgtactccac cctgggctgc 60  
 caagatgtat caggatctca cgacaatggt ttggtgacca aacatgaaga gagaggctag 120  
 tgagtttgtg tatgtgtgta tagtatgtca gatcgctaac atagaacatc tgagaccctc 180  
 atgtaagttg caacactttg agatacccag aggaagtgga atatttttca ttgatttcat 240  
 tgttgactac ctaggacccc caaggtttcg atctatcta 279

<210> 30591  
 <211> 270  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30591

acttcctca cgtactgtct cgtgggggggt atgaactgct tgacaagaaa cttatggagg 60

agaagagcaa gcgtggacat gaggaacatt cgtgtactga aagcccaaca ctcaacgtcg 120  
 acccaccatc cccagttgca agacacttga agtggaagat cgcccgact aagcggcatg 180  
 gccaaatgac gtctgaagtgc gcacaagaaa ttgtagacan aatgggtcagg tcatatattt 240  
 ttttggttac tgtcattggc anataatggt 270

<210> 30592  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30592

gcttgtgatt atcatgtaga ggattcatca naaggagttg accacgaaca aactataag 60  
 attcattcaa ccccatgaga aattgcatca acttgctct tttgttggtt gcttcacatg 120  
 tgcaaatagc atcattatag gatcctaact catccacaa tttttttta actttgtata 180  
 gtatgcagca actatcattt gatcttaagt aaggcaagca atctctctct cgatctggaa 240  
 aatgagtggg gcgttgcttt gaaagaaaca attttgaaga tcttcccaa cttcatgagc 300  
 agtgtaaana aaaataacac tatctgtaat atcaggggtc attgaattaa gaatcccatg 360  
 acaaaccata tcattgcatt nttcatgcta catagtcttc t 401

<210> 30593  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<400> 30593

tgatgggtac catgaggtgt ttttgtgtt gaccacgcg ggtggtgaag agacggcatg 60  
 ggcattctct tcttctctt ttgcccctgt tgccccgatt cttttggcgt tcacgtttgt 120  
 ggaggaaacg taatcaaact ttctctctt caatccaacc tcgattcttt ccccgcaaa 180  
 caccagatcc gcgaaactgg acggcatgta acccagtatc ttctcatagt aaaacactgg 240  
 cagagtgtct accatcatgg tgaacatctc totctcaacc atggaggagc tacctgtgcc 300  
 gccaatccct ccatcgctgc gcatattctt t 331

<210> 30594  
 <211> 426

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30594  
  
 agcttggtcac ttgtcagccg aatggagact tctgactaac gatccttaga tgacaaggta 60  
 ctaccacatg gctacttggc ttanagaatt ctctcgccaat tttgagctca gacacattat 120  
 aagagaaaac aatgagagcc aacttggtgt taaaactcgc cagtacaaag aagaaagggt 180  
 aatacataat agttatcaag gaaacaatct tggaactagg cttggacaag gtggtagcga 240  
 gtgtaactct catttattga gcggtggataa ttgagattta cgacttcctg gaaataactc 300  
 actctcgaat aatctagtag cgacaagaaa gattaagaga aatgccagtt attatgtgat 360  
 agcggggagga tacctataca aaagacgctn tacaacctct ctgttgaaat gctaagtcgg 420  
 gatcat 426

<210> 30595  
 <211> 213  
 <212> DNA  
 <213> Glycine max  
  
 <400> 30595  
  
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 caccaaatgt ttgttaccac tctctcagac cctattacat acatcttata cgactgctga 120  
 aaagtgatca ccaatatccc tgcattgcaaa tttccccagc tttgaattgt tcaacggagt 180  
 gcatccaaac ctgtcagtcg tgactcattg ccc 213

<210> 30596  
 <211> 503  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30596  
  
 agaacgaagg ggggtggaac gtacgcagca tgcgncata nagnncgncc ngggatnntt 60  
 nagtcacctg cggtcatgcaa gctttcttta ttgcgtcacg tntannaccg agctcgatgg 120  
 tgggtgcgagc ctttgatggg actcngcggg aagtgatggg ggaaatcgat attcccattc 180  
 agatacgccc ccacacttgc catgtggtgt ttcaagtaat ggatataaat tccgcctata 240

agctgctctt gagaagacct tggattcatg cnctgngagt ggtcccttca acgctttacc 300  
 agaaattaaa gttcgcagtg ggtggacttt tagtgatagt gtcnggtgaa gacgatatgt 360  
 tagtgagctt ccactcctcc tcaccgtaca tagacgtggc ggagaaatca ttgaaccggc 420  
 ttcttatect ttgnggggtg agctgtgcct cngtgggaacc agtccgtcct acctttctct 480  
 ccacgccgca taatggtgca ccg 503

<210> 30597  
 <211> 136  
 <212> DNA  
 <213> Glycine max

<400> 30597

aaaagctgca tctacagcgt agaagtcacc tgcagttatg ttagctagca catccatttc 60  
 tagtctgtat cttgttggtc atcaactagc atgcagtcct gaaatattat agaaatgaca 120  
 tatcttatgg aagaaa 136

<210> 30598  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30598

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 atccctccaa tagctaagtt cacacctatg ccaaaataca tgaaaataca atgggaagca 120  
 aggaaggtag cttccttggg aagcaaggaa gaaagcttcc ttgagaagct agaggggggg 180  
 cgggtggctac tcacaccgc tcaatagtta tgctacccc catgccaaaa tacatgataa 240  
 tacaanaaaa taaaagtccc tactacaaag actactcaa atgccctaaa atataaggct 300  
 aaaaccctat actact 316

<210> 30599  
 <211> 503  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30599

aagcgtttca taccanngct tgcacnnncn nnnannaaga ancngggatc cttanagtcg 60  
 agctgatagc tgcagcttgt atttgttttc ttttaatgtg actatgaggc aggcgcgtct 120  
 ttgagaacca atccatcgac ctctccatct caaaactcaa taagatataa gctccacaca 180  
 tctcagctca aaccaataa atggagctag tatgatagat agaacggctt gctataaact 240  
 gcctgccaca caagtaatcg acattataga tgggaaatct gtgacaactt ctttctgtca 300  
 gagcaattgg agaccactta attgaacca ctgtatgcta tcgccactac attaaactttt 360  
 ttctaaggat caagtatagg tataaatata tatgtattaa ctttatgata actaagtttc 420  
 atccacacaa ccagcttggt caacctttag tgaaaatatc cttctcaact atgtatttta 480  
 tatctatata accaaaccac aag 503

<210> 30600  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30600

cactatanaa atactcccaa gcttgtaggg attanntggg gtacccatca caatgtggta . 60  
 ctagtgtggt ctgtcgggcg aatgggtgcaa aacgattctc cacatccata aatcacgtac 120  
 aaaccaccca tcccctgttg cccacctcca attgagctca cgtactccca cgtagccctt 180  
 atcctcgttc atctcaacgc cgagtcccca tcaatcctcc caagctccca caacatccaa 240  
 ttaattccac atccaatcat catggactaa caaaaccaag caaaacaagg caaaggcaga 300  
 aaactctgcc caaaacacaa ccanaatca cagcttttca catacaaata cccagtaac 360  
 atttccttcg ttcgaattc 379

<210> 30601  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30601

catgtttgct ttgcttctgt gatgatgtgg caggagcaat ttctgatggt tttaaaacaa 60  
 cagcattacc agctgcaata gctccaacga ctggatcaag tgacaacact ggaaagatag 120



acagagaatg taatatagat nttgcagaga ttggaggaaa gaaaaagggtg agatgtcagc 180  
tcaaaagtat gtgacacaat accaactaca tattaacata cagaatgggt agttccatgc 240  
agagatgact aacacaaccc ccagtgggtc agatactatt tcagctgaag atggaaatag 300  
tgcgattgaa gtcttgacct gcaataaaag ggaaattcat gtgataaatc ataagtacca 360  
aacaatgtca gcaatgaaat tcacataatg tatanccttt caggagtca 409

<210> 30602  
<211> 318  
<212> DNA  
<213> Glycine max

<400> 30602

caacatatat atgttcatcc attctaagct atcctttttt ttttacatat gttgtaccag 60  
gcctcccatc cctctaaaag tgaccctaatt tctcatttta atactaatgt tgccccataa 120  
ggaaatgcc aatatgtttc ccagagataa aagaaacatg tctctcaaag ttctttgtat 180  
ttctatatat ggccatattc tctaaatata ttaatagatt atttactgag agaactcaag 240  
attcctagtt taaaaaagaa gtcacacat tagccctctg ttttattctt ctctatgatg 300  
tcgtttgat tcttctct 318

<210> 30603  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30603

agctntgagc ttattcttac gacaataact nttgattcgg atgtccgatt gtgtcccgt 60  
ttatatcgag atgctcgtaa ttgaaaatag aagctctgag caaattcaaa cgacaataac 120  
ttttgactcg ggtgtccgat tgtgtcccgat agtatatcga gacgctcgaa attgaaaaca 180  
gaagcactga gcaaattcaa acgacaataa ctttttactc ggatgaccga ttgagtcccg 240  
taatatatcg agacgctcgt aattgaaaac agaagctctg agcaaattca aacgacaata 300  
acttttgact cggatgtccg attgagtccc gtaatatatc gagacgctcg caattgtaaa 360  
cagaagctct gagcaaattc acacgacaat tactttctac tcggatgtcc gattgagtc 419

<210> 30604  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 30604

gacacataga aactcaagct gttcttgatt tttctaagtt ctttaacaag cttagatcaa 60  
 tataacttgtc cttcatTTaa ttgtctttgg gcttggcggc ctgatcaac aaagtacttt 120  
 cggcacctac tatatgttga cttgaccaac gctcttatcg gtatgctgcg acaatccttc 180  
 aacaccttat tcacacattc tgagagggtt gttgtcatgt gaccatatct tcgtccagat 240  
 gtatcataag ccatggctcc attttccttt gaaatgcat caatccatgt cgctatggct 300  
 ggactcaatt gacaaaattt ttctaagttt tgatcaaaca catgcttgca aagagtgtac 360  
 gctacatcac aattgttacc atcaaaagtt gaggtagata tgaaactcaa ataacttca 419

<210> 30605  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 30605

ttcttgctca tttgtttaat aaacttaaga tcaatagtta ttataaaaaa ttctatcaat 60  
 aaaatttctca catcacacta aaaatcaaat ttgcatcctt ataaaatatg atttctatcc 120  
 ttataagtgg actcacacct ttgttggtta tctcactc taaatatgta tatgtattgg 180  
 ttctgtcatc aacaataacc ctttgcaatg tcaagtaaga ttgtttctac taaaaaata 240  
 tgtgatatgt ggcatagtaa taaaacatat tgattaatga agatcattat aaatttagta 300  
 taaactgata ctggaaatga ttacaagcgt gggaagagaa aaagagtgat gaggtagtgc 360  
 ttctgcaata atttaccac aggagcagtt ggcagtagtt agtgcgctctt ttaaatgata 420  
 cat 423

<210> 30606  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30606

tatcctctac gacaatcaac tcggcggcaa aattcccggc tctatcggga accttaagag 60  
 ccttcaagtg ataagagcag gtggaaacaa gaacctggaa ggccttttac cacaagaaat 120  
 tggcaattgt tccagtttgg tcatgttggg tcttgctgaa actagccttt caggttctct 180  
 acctccaact cttggcctct tgaaaaacct tgaaaccatt gccatttaca ctccctact 240  
 ctcaggtgaa ataccacctg aacttgngta ctgcacaagg cttccaaaca tatatcttta 300  
 cgagaactcc ctcaactggat ccataccaag caagttggg 339

<210> 30607  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30607

agcttgaact tgctgtattt tctacttttc tagtgatttc atatgagaca ttgtgttcat 60  
 tctgttttat ctgaatataa tttagtatat acacaaatat tgattttgat atgctaataga 120  
 gatatgctat ttgcatattt agaatccata tggcagtttc cttgacgagg actataactg 180  
 aaagccaaaa cgtgtttccc atgtctatct gtcttgcaag gcggatttct gatcatggag 240  
 cttcaagggg agggatactg cttcttaaac gttgattcaa ttattattcc ttactccttg 300  
 gtgtaaaata ccttatatcn taataaattt tatgctgggt tatactttat gntttaactt 360  
 gtcaaaacaa aagcaaaccg ccattgatcg aattggtcgg gatttcatct tccgaaactc 420  
 ccct 424

<210> 30608  
 <211> 502  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30608

ggggnnnnnn nnnnttggga cagtcagact cngcaatcac tcgaccgggg tctctgagtc 60  
 acctgaggca tgcaagctct ntgtataatc tttcttgga agctagagct agctacacac 120  
 accctctaa taactaagct cacctncttg agaagcntnc ttgagaagat tcctagagaa 180  
 gctagagctt aactacacac acctctctaa tagctaagct cacctncttg acatgagaag 240

ctagagctta gctacatacc cncataata actaagtnta accccatgcc aaaatacatg 300  
 anaatataan aaaagtcctt nactacaaga ctactcanaa tgccctgaaa tacaagacta 360  
 anaccctata ctactagaan tggcaaaaata cannggccan aaaanggana acctattcta 420  
 tatttataaa gngagtgacc caaccttgct catgggctag aatctacctg tgtcatgaga 480  
 cccagggcct cttagcactc tn 502

<210> 30609  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30609

aatactagct taggttttcc tgctttttta ttctnctacc tcttttcttt cttcccttag 60  
 aaacctttct taagtttaaa atcctgcgac tacgcgctaa gcgcgtaagc tagctaagcg 120  
 acccatgtgc gctaagcacc ttttcacttg actgcaggtg ctctatgctg cttcttcgcc 180  
 ctgagcggac accctccac taagcaacaa tagctcgcta agcaagtccg acgcactaaa 240  
 cacaaacct catgcttcaa cttctctctt tatcccttgc ttggatatct acaaaataaa 300  
 atcatcaaac agtttgaatt aacgatttaa ggtacctact gcgcaaatac ttcgaggata 360  
 ttaaaattat aatgattcac acaaaaa 387

<210> 30610  
 <211> 154  
 <212> DNA  
 <213> Glycine max

<400> 30610

tctgggtggga catcttgact tgctttctaa tctgacattc atttcagatt ctgccttctt 60  
 ctatgttcag attgggaatg cctctagcag cacctttgtc gatgattttc ttcatgcctc 120  
 ttaagtgcag atgtgcaa atcttgatgcc atat 154

<210> 30611  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 30611

catgtntgtc atcatcaaaa atgaggagaa tgtgaatgta ttttgatgat gtcaaaagaa 60  
gaatcaaacc aggctcattn tgcttcaaata taatacaaga ttgttcaaca aacanagcct 120  
tgattcaaga tttcttcaag atcaagtcgc gcctcacaat gaaagggttc aagtcattca 180  
aggcacatgt aatcgattac caatgggttg aaagtgtgtg atcnattaca catcatantg 240  
tatcgactac tacagactct gaatgtggga attcannatt taatgaaggg cataactggt 300  
cangaaaata actgtcgtat tattacacta anntctgtat cgatttcaga gaggatntca 360  
cggatatcgc cacagcacat ctatcattcg attttgag 398

<210> 30612  
<211> 242  
<212> DNA  
<213> Glycine max

<400> 30612

atgacttgat attgactttt cgggaatgca cagacatctc acattcatca aactgggtcca 60  
gtgaaggatg tttgggaaca gttgccggtc tctcataatg agccgatgat gttcatcatc 120  
ttggctgacc ggttgccgac tgctggggat aatgtgaaaa ttaccacccc ttgtctaagt 180  
ccactctttg tcaccggcta atgggttatac atggacattt tcttgcccac tttgacagtc 240  
tc 242

<210> 30613  
<211> 241  
<212> DNA  
<213> Glycine max

<400> 30613

tatgcagtta ttccccccaa ccacaagaaa gcaaaaccct taaattccat acgaatcaaa 60  
atcctcaaca gagttttacaa atccgaaacg aatagaagaa attggaatta aaagaaaaaa 120  
acaaattata aaaagaagaa caaactaact aattggatcg tgggtggaaac ggtgtgtgat 180  
gcggttgatt attttcgatc ctctgttccg tgcttcagag agaacacaga agaaatgatt 240  
t 241

<210> 30614  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<400> 30614

ggattatata tcagagtgtt atgatccagc cttaaccata atcatgacta acataagcta 60  
 tgtttaataa gacattctag ttaatttctt atttttatta ggtgaaaaac tcaattgtgc 120  
 aataaacaag ttcttataat acctactaat gcttgatatt ctttttaatg atacattttt 180  
 taagtacttt aacatctaataa tttacttaac aattctaata taactaatta gtctttaact 240  
 gcttactatc aattagttgt tttaacttct acctactttt gtaacttcta gctaattgtg 300  
 caaacgtaat gataatcacc aatttggtat tctcttact 339

<210> 30615  
 <211> 488  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30615

nggctgtaag accatggcna gcacatcnng caattcagct cgacccggga nctctgagtc 60  
 acctgcggcn tgcagctttc ttgtttgtcc atcnngngaca attaactgta aagtgggccc 120  
 aattggattc taatttcaac ttacctatnt ggaagtgaca tcatggcagt taggtcccag 180  
 ctntccattg tggattcagt cacanaacca acttcaatat gtnggactat ctaacacggn 240  
 gatnttcgat tctattccca cacacgatgt gggaagcacc ttctcanggt ttgtatntaa 300  
 acctctctcn taatcatatc catgggtgaga tngnactaca ttaangaatc aatatctatc 360  
 caaatattga tctaagctag atcactcgtg tggttaattac cctatctttc acgtgatgtg 420  
 ctcnngtaga tctntcangc attcattctc tgatccatga atgacttnta tgtacnatca 480  
 ngacanca 488

<210> 30616  
 <211> 487  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30616

tgaccggcga anagttgaga ccctggtaga atccgatacc nctgtaanaa cacngcnng 60  
 gggatctact acgctttag aactatggat gctgttcaag caaattacac tatcttagag 120  
 aaggagctat tatcgatagc ttttgcctt gagaaattac gttcatatct gcttggtact 180  
 cgtgttattg tttatactga ccattgcact ctgaagtacc tgttgaagaa cgctgaatca 240  
 aagcctaaat tgatcaggtg gatgctttgg atccaagagt ttgatttga gatccgtgat 300  
 cagatgggta ccacaaactc tttgggtgac cacctgagta tgattgagcg tgcgcctgat 360  
 gactcaccca ttcgggatga attttcacat gaccatttgt acattttgta taagatctct 420  
 gattccgtcc ccactccatg gtttgcttat attgcaatta tatggctgct catgttttcc 480  
 tccctcn 487

<210> 30617  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<400> 30617  
 ccggaatcca ttttcgggga aaaatgtata gactgagaaa agaaaaatca atacggcgaa 60  
 tgttttgtgc tagcaaaact atgggacctg ctttgtggta ctactctggt gtgaaatagc 120  
 gatttcacat tactgatatt gaatttggct cttttttat agacgatcgt cagaactctc 180  
 atccttggtc tcctctatct ccctcgaagt atgactctaa tcttgagtct tttcttttgg 240  
 tataaactaa tcttgagtct gaatgggtgg ttaagtaaatt ttctaattga aatgatactc 300  
 taatctaaaa tt 312

<210> 30618  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30618

aatcacatgt ntgtcatcat caaaaatggg gagaatgtga atgtattttg atgatgtcaa 60  
 aagaagaatc aaacaaggct cattntgctt caagattaat acaagattgt ttcaacaaac 120  
 aaagccttga ttcaagattt cttcaagatc aagtcttgcc tcacaatgaa aggtttcaag 180

tcattcaagg cacatgtaat cgattaccaa tggtttgaaa gtgtgtaatc gactacacat 240  
 catatgtaat cgactactac agactctgaa tgttggaat tcaaaattta aatgaagggt 300  
 cataactgtt caagacaaat aactgtgtaa tcgattacac taattctgta atcgat 356

<210> 30619  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30619

tgagcgaatc caaacgacaa taactgtgta ctcgatgtc ttattgagtc ccgtaataata 60  
 tcgacatgct cgaaattgaa tgttgaagct ctgagcacat tcanacgaca ataacttttt 120  
 actcgatgt ctgattgagt cccgtaacat atcgagacgc tcgaaattga atgttgaagc 180  
 tctcagccaa ttcatacgac aataactttt ttctcgatg tctgattgag tcccgtcata 240  
 tatcgagacg ctcgaaattg aatggtaaag ctctgagcca actcatacga caataacggt 300  
 ttactcgat gtctgattga gtcccggtac ttatcgagac gctccgaatt gaatgttgaa 360  
 gctctcaacc aa 372

<210> 30620  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30620

tgctttgaat attggtcttt gccagtgaat ggatcgatgt gggatatgaa aaaggcaaat 60  
 ttagtcatcc tgcttgacg aatgagaaaa ctggggcaaa tgaagagggt gagaaagagg 120  
 gagaaacca tgctgtgact gccattccta tacggccaag tttcccacca aaccaacaa 180  
 tgctattact caatcaataa caaacctcct ccttaccac caccagttta tccacaaagg 240  
 ccatccctaa atcaaccaca aagcctgtct accgcacttc caatgacgaa gaccaccttt 300  
 agcacaacc aaataaaaca ccaaccaaga aatgaattnt gcagcgaana gcctgtatga 360  
 ttcaccccaa attccggtgt catatgctaa ctttgctcca tatcta 406

<210> 30621



<211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30621

agcttgcttc tacaatctcc ccctttntga tgatgacaac cctgaaatca agaaacacac 60  
 acacacacac actttttcct agtcgatcac tcaacttaatt ctccatattc tccccctttg 120  
 tttttgagtt tatgcttcac ttgaaattaa gttaattact tatgtgagtt cttgatttaa 180  
 tccttatttc tctccccctt tggcatcaac aaaaagccaa agtgcgtaac aaatataaat 240  
 catacatata ttactaatca ttcacaagac attcattgaa aaatctaaac caatcatgaa 300  
 gcaagaaaca tgaatagatc anatatataa aatccacata gtcataatac acaattcata 360  
 attgttcaat catactatgc aaataanaga aaatactaaa tgggtcanatg tcataataat 420  
 at 422

<210> 30622  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30622

tctcaaacat taatntaaac aataaatgca caacttagca tgttttagtgg tgccaatagc 60  
 agttaaaatc actaaacaaa ttcacatgaa aggaattgat ttgaactaat gaacaatagc 120  
 aaacaaaagg aattaattga tgcacaagca ccaagagcaa tacaaattga tgctaataat 180  
 aatgacgcac cacatagaaa ttagaagcaa aaattaggct caaattggaa tatgatgcaa 240  
 tcacaaagag aaaggcactg aatgaattca anaaaaaacc gagcatggt attaaaatgc 300  
 tataacaaat taacacaata tgccacaagt aggtgacaca catccaattg atatttgatt 360  
 gatgcacttc atacaaccaa tgctaattc 390

<210> 30623  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30623

agctcgaccc gggtcctcta atcacctgca gctgcagctt caatttcaag cnaacagcta 60  
aagaagaaaa tgtgggatcc tgtgnaacca atggtgcttg gaaagaagag ttaaaaactg 120  
ccgttaataa ttatgcttct gtcattacag aacttgatgt tgcaaagaaa gaactgagta 180  
aaattcgta ggggtatgat ttatcctcgg aagcaagagt ttctgctctc aagcgagcat 240  
cagaagctga agatgcaatg aatgcataca ccataagagc atgtgagcta tctaaagaaa 300  
ttttggctgt acaggaatca tttgagaaaa cgaatgctga atntgtccaa gcacatcaac 360  
t 361

<210> 30624  
<211> 393  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30624

agcttgaatt ttatgttgat ttgacagaga gaaatacttg tagcttggtg aagttactag 60  
aatttggtgg tttgctataa gaacttgaca ttgtcttggt ggttgagatg aaccaacata 120  
aatntgatgt gtcttattct tttttatttc tcttttgcta tttgatctgt tagggtttga 180  
atttgatctt tattatttaa aaactttggt tgttttacia agatttgaaa ctatcatctt 240  
atttgttntg caaaagtctg atatctgttt tgttaagtct tacttcacaa gacaataact 300  
ntattanttt acgaaaaaat ttttttttta tgaaaattac aattcaatct tatttcttgt 360  
aatatttatt tttgcaatat tattatattg tat 393

<210> 30625  
<211> 431  
<212> DNA  
<213> Glycine max  
<400> 30625

tcctcgggtgc cattcactgc gattgctaac atttggaaag ctagtattacc aagaaatgct 60  
actcttaaaa caaatatggc atacaacctc ctccaataaa cacaaacatc aatgtaaatt 120  
tagagcaaac tcatgcacat acttccttat gaacattcac tcgcacaaaa tattcttcta 180  
cctaaaaaaa atgcacccat gcgcaatcaa agcacctttg ttacctagat atatttatgt 240

gtacttccaa ggtgtattta ctacttacat cacatgcatt tccttggcta aatgtacata 300  
catgcatact caaagcatct tggctaccaa aaattgcaca cgtgcacatt ctggcatttc 360  
tagtacctat gcatatacaa actatgtgat gaatctatgc tatctacaca ataaggtgct 420  
acatttcattg c 431

<210> 30626  
<211> 381  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30626

ntagcttcca ctcgtaagac catatgccac tagaccagtc tattctagaa tatagaaaat 60  
aaacttcattg gtctcgaata catgtagcgt gcctaaactn tgaggtgtaa catcccaaaa 120  
ataatctaata aattatctag ataaagatat ttaaataatat cttttattac acgacaagat 180  
agattaaata atttaaata atcatataat gatttttatt tcgaacagag gttactataa 240  
taatataata gatttggttaa cgataaatta acgataatag aaagtataga taaagaagga 300  
tcatttaaca gattgcaaata tacacacaat tcttaataata tgggtgacag tctttctctt 360  
agaacacaca cataaaggat c 381

<210> 30627  
<211> 403  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30627

tcacttgcca ctgggtataa actacaacct ttaaacaaca acttgcaagc aattaaaatt 60  
cgtgactttc taagagacaa ttgtatcttg actccacgat ctagctcttg aatcatctta 120  
cacacccttt gtaacctaaa gtacaagaat tccctacctt cccctcatt gcattattac 180  
atcgtcaagc acattctata taagttatga cccatgtat catctaaacc ctgtaggaga 240  
tgtgagaaga aatcatata taaacatacg ttttaataaac ctatataaca ctgatngaga 300  
tattcttacg gatgcttatc tggatatctt agaattacat tgcttcggtg cttgaaacgc 360  
caaccaata tccacattca tatctctcac tgaaatagga cgc 403

<210> 30628  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30628

accaagtgtg tctaactttt cctaagtcta tgtttttgcg ttgttgcgct aaacgcacct 60  
 tgcgcactaa nggagtactg ttatttttat aaggcacgct aagcgagcca gtctcgctaa 120  
 gcgcccattc tatttttttag ttttattttt ctgctttcag ttaaaataaa agcatgtcta 180  
 atatgattat tgtgcttatt ttttatgcag atgacctcca ngaagaggaa agccatagcc 240  
 tcccgatccc gggaaccata taacaccacc cattntgttt ntgaggtcgc ttangagcga 300  
 tattctcaaa acattcacac caggaacatc cttccagaga ggaatgttaa tctttttgtg 360  
 atagagtatg 370

<210> 30629  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30629

gcagctttac attaatcca gctctcgatt gtacgggctg atcagacatc gagtaaaagt 60  
 attgtcgttt aatttgctca gtgcataaca ttcaattcca gcatctcgat acgtgatggg 120  
 actgaatcag acatttgagt aaaagttatt gcgtttgaat tgctcagtga tgaacattca 180  
 ttcagcgttc gattataccg actcatanac atcgagtana agatttgctg tgatnactta 240  
 agctcacatt cattcacacc taattgtacg gactgatcga catcgagtaa agtattgcgt 300  
 tgattgctca actcacattc att 323

<210> 30630  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30630

tctttgagct tcattgttgt cctttaatgg cgattntcca ccatggagat gcatcggaag 60

acaaaggaga ataggtaaga ggcgacgcca tccactatgg aataagccat gaatgagctt 120  
caccacgaag atgagcaaag agagtgttgg atcgagtggc ctcanatca ttaagaaggc 180  
gggggggggtg aattaattat tccataaacct ttactaatta aaaaattact cttctaattgc 240  
ttttacttat 250

<210> 30631  
<211> 366  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30631

cccacaacaa caacaacaat tcatcaaccc acgatggaga agaagaagcg gtgaaacccg 60  
accagctgtt caaggaaacc gcagagtaca tcgtgttgct gcggacgcgc gtcgtggttc 120  
tccagaaact cattgagtat tatggaaaca acaacgacac caccaagat gagaatgaac 180  
atgaagatgg tgtcttgttt acatagctnt ttcactctct tcttcttctt catcttatta 240  
ttattattat tcttttttgt tttcttctta catggtttgt tttgtgactt ttgtcctttc 300  
attaatgaag aaaaaaacaa aagacaagat ctttgggtcta gtgttttttt tcttggaggg 360  
ggggggg 366

<210> 30632  
<211> 369  
<212> DNA  
<213> Glycine max

<400> 30632

ccaaaatcat gagcacgaga agagtctgtt ttcttattaa tacaattcat tgtatatgcc 60  
gtgatcactc aacattccag tcttatgtaa gaacatatta tggattaacg gacaataata 120  
cctctatgtc tgagatcgct ctacacaaat aggctcagca tgtggggcgca tagaaagtgg 180  
atagtggcaa aactgaatac atgctgctat atacaattaa tagactccca attgtctatt 240  
atttgaataa gacctttgat ctttttctaa aataagcgga gctaaaagat tatctgtttt 300  
tgatgtcaat attgaaaata gtactcttgg ctgataaaag tgaaaaatgc ataatgccg 360  
ataaaatat 369

<210> 30633  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<400> 30633

ttcgaatggt cttatacttt tcaactcggat gtccgattcg cgggcataac tcatctagat 60  
 gctcgaaatt gaacatcgga agctctcgag aaattcaaat ggtcataact ttccacacgg 120  
 atgtccaaat ttaggacata atatatcgag aactcgaac ttccacaacg gatgtactcg 180  
 agaaatttga atggtcataa cttttcacac ggatgtccga atgtgggaca taatatatcg 240  
 agacgctcga aattgcgcta cggaagcact cgagatttcg aatggtcata acttttcaca 300  
 cgaatgtctg attcgcggac ataactcatc tagacgctcg aaattg 346

<210> 30634  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 30634

agtttcaaca taataaagac tttctcaagt caagaactat gatcttcttg aggaactcta 60  
 ggtttcaaat cgtgccatag taagcatggg atatattgaa taacaattac agggagaacc 120  
 catgcattga tcttaatgat gtgtgtaatg agacaatgaa tgatgcacaa ttcgaaagct 180  
 ttgttgatat tttgtcacc cttggaaatt gttgctcttt tagtctactg gcagttgaat 240  
 cttttccctc tgcttcaatg cctctcagt caatggcatt ggcttcaact aggacttcta 300  
 caccatgtgg gacaaagtgt aaagttgtta tggttgatgt cactgatata caatttgatg 360  
 agttcaacac aggtcttgat 380

<210> 30635  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<400> 30635

tatgaagaga gaacaattta gagagtgatc gaagactttc aaatggattt ccaactgaatt 60  
 tattcataga gagatcgaga tatcttaatg atgaaagttt tccaaatgat ctaggaagag 120

caccaccaat tgagttgttg gaaaaaagta acgtgtcaat atttttaaat gcccgaatat 180  
gatctgtcag attgcctgaa agtcgtgaac tctgaactgc aagtcttgtg agtccatggg 240  
aaatacaagg agcaagaatt tctaaaagtt cattaacctg ttggttgagt ttgagatatg 300  
ataaatctat caccct 316

<210> 30636  
<211> 366  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30636

ttgcttcctc cagaagcaaa agccttctgg aggaatcttc tanacggccc aagtgggctt 60  
ggatgctatt tgcaccccca ttnttactaa ttacaccccc ttgctttttt tggtgattct 120  
ttattcgtaa agttatggaa acttacgaaa tctcgaacga tacttggtat cttttcgtaa 180  
tgttacggaa ccttgtggat tacataatca tccccttatt gacttaccga atgtatcgga 240  
acctcactaa ttgagcaacg atgcttccat ttgaatatcc gcgtgtcacg gaaccttgct 300  
gattgtgcat caatattttc tattgatttc tggcacgtnc cggaatttca caaattgccc 360  
aatgat 366

<210> 30637  
<211> 120  
<212> DNA  
<213> Glycine max

<400> 30637

atgaatgatg tgataatatg ctgcactaaa aatcttaact cgtaattgac taactacaaa 60  
atgcatatat tatatcatag actacactcg atattcttga atcatctaata ttgagtacaa 120

<210> 30638  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30638

cgcatgttat cnttactaat agctatagac atatttgaag accaactata ataatgaatc 60

tggaaattcc ttcccaacc cctcagccag gtccatatga gaaacagagt gctatctgtc 120  
 agtctagtga tatcaaaggt ttgattctgg aaaattatat catttctgag cctccatatt 180  
 gaggttgtaa ctgctatcca ccacattgtc cttcttatgt tagcatcctt tgaaactgct 240  
 gaggagaaat gctgaagaca attgtccaaa ggtctgcagt gaaacacctt ttcttccttt 300  
 atccaagata ggaattccca ccatataggc ataattntgc cacaagtga gagtacgtgg 360  
 gaagcagttc aggttgacta tgacagaatg gcataaatat tatgcacctg aatctgcctc 420  
 ttaatc 426

<210> 30639  
 <211> 349  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30639

gcttagctac acanccccct ataatagcta agctcacccn catgatataa tacatgaaat 60  
 acttaaaagt ccctactaca aagactactc aaaatgcctc gaaatacaag gctataaccc 120  
 tatactacta gaatggccaa aatacaaggc ccaaacaag gaaaaaccta ttctaantat 180  
 tacaagata agcgggctca aacttagccc atgggctcgg aatctaccct tangctcatg 240  
 agaaccctaa ggccttcctt tggatctctg gcccaatcta cttggtgtct attatccaat 300  
 gcccttggtg ngtaagatng catcattccc tccaccttgg aaaggattt 349

<210> 30640  
 <211> 313  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30640

agcttggttag aactatcatc acatgacgct ntattggcac agaataagtt gctttctaag 60  
 caacttgaga ttttaacaga aacacttggt aagttgccaa ctaaactgtc tattggtcaa 120  
 ccttcacatt cttctatctt gcagattaca gggttggtga tcaagtggcc tcagaataat 180  
 taagaaaggg gggggggggt gaattaatta ttctaaacc ttactaatt ataaaattac 240  
 tcttataagg cttatactat gttgttaagt gaataaagag tagaagagaa acttaaccaa 300



cagttaaagc gga

313

<210> 30641  
<211> 382  
<212> DNA  
<213> Glycine max

<400> 30641

tataaaaccc agcttgggaa acaattagaa gggaggagaa ctgatttgtt attttatgaa 60  
tattatgtct tataacataa gggggcttgg aggtagactg aagaacaaag aggtacatag 120  
tttaatttct aaatataagt taaatgttat ttatgagcac gagacaaaat tggaggagat 180  
caatagtagt ttatattctt tgttgaggag ttgagatgat tatgagtttg attctaaaaa 240  
atcagagggg cggttatggg attttatgat gtggagaaaa gatcttttgg ttgtaaaaga 300  
ggtggtgtat aaggaacatt ggttatgatt aattggtgta tgtggcgttg agcagattga 360  
agtgtttatt gctggggtgt at 382

<210> 30642  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30642

agcttgctaa tgtgttgcac accaatgagc tcgcaagacg gctaaagggtg atgacttatt 60  
tgaggttact gagtatatgt tatacctgct agtagtctgt ttctgtatgt gttgttctgt 120  
tttatttacc cctgcaaaaat aaaggaaaca tgagaacagg gaaacagggg actaatccag 180  
cttatcagga aaatggttgt ggagggtggc tactgacacc aacagtttgt gagatgctat 240  
ttgtttatgt aaaacaaatt gttgtgagtg gatcaactgg agttgggggtt tgtaagatan 300  
tttctgagg gtgttggttg ttgataaaag agtaaccttt gganaattga attcttattc 360  
atatactctg aaatgac 377

<210> 30643  
<211> 252  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 30643

ttatgttgca natatttaca atagacctcc tcaacctcat tatctaaatc aaccacagtt 60  
tatcaattat gacctttcca gcaacagata caacctgga tggaggaatc accctaacct 120  
cagatgggcc agcccttata aacaacaaca gcagcctgct ccttccttac aaaatgctgc 180  
tggcccaagc agaccataca ttctccacc aatccaacaa cagcaacaac cccagaaaca 240  
accaatagtt ga 252

<210> 30644

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30644

agctttcttg ataaaacttc cttgagaagc ttctttgaga aaacttcctt gagaagctag 60  
agcttagcta cacacacccc tctaataact aagctcacct ccttggaag cttccttgaa 120  
aagattccta aagaagctag agcttagtac acacacctct ctaatagcta agcttacctc 180  
cttgagatga gaagctagaa cttagctaca cacccttat aatagctaag ctcaccctta 240  
tgacaaaata catgaaaata caaaaaanag tccctactac aaagacaact canaatgcct 300  
cgaaatacaa ggttaanacc ctatactact agaatggcca aaatacaagg cctaaacgaa 360  
ggaaaaaacc tattctaata 380

<210> 30645

<211> 346

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30645

tctcccccaa ttntctataa atagggggag aagtgatgtt gataaggggc cagcccctta 60  
ggcacttgtc tctctttcga atttgctcgg aaaaattgtt tccgtgaaga aaatctaagc 120  
cgaggcgctt gcgaaacgtt tccgtatcgt ttccgtgag gaatctcgca aaggtttcaa 180  
ccgtttctcg acgtttctca ttcgttcttc atcgttcttc gatcttcaac gggtaagtac 240  
ctcgaaccaa gcttttctat tcattctatg taccgtagt ggtccacatt gtgtttcgtg 300

catttatatt ctcgttttgt tactttttat taccctgtt gcatgc

346

<210> 30646  
<211> 380  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30646

agccttgaat ttatcttttc tatgtcttga attgaacctt atctaattat caaatattat 60  
aatcacatt tcgttgtggg ggaatgtgag gctcanagaa cattgtgtat tttccatctc 120  
tctttgcagt gcatatgata gagcggttat taaattccga ggagtggagg cggacattaa 180  
cttcaacatt gaagattatg aagatgactt gaagcangtg atcaatttgt gaatatttat 240  
attttgtnt atcttatctt gaacagtcac acctcatag tataggatca ccttatctcc 300  
tacagttagt gctatntttt ctgtcttgaa gtactctcat gaatttgta aatgcaatgt 360  
taatagatga gcaatcttac 380

<210> 30647  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30647

tctctactac caagagcagc tcaatctgtg atataaaata atgtaagaga atcaattaac 60  
taacacccaa taagaacatc agaggaagtg atgggggata aaaataaaat gtcatgattc 120  
atatacagac agacaaagat gaaagtcatg cataggctta ttttctgaga ttntgtgagg 180  
canganaaaa gacaggcaac aaaccctttg acagactcaa aatgacaaaa tagaaagaca 240  
acaagacaaa agggcaagta atttgatggg gaggagctaa ggaacatact gtgttgaaaa 300  
ataaaggggtg aaattaaatg atntaggtag ttaataagtg aaacctgagc angagaaata 360  
aatcataat atatgcaata ttgcatggaa t 391

<210> 30648  
<211> 348  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 30648

tatatgccta gatatcaggt taatttaatt tagcttatnt tcttattang ttttaattac 60  
 tttttttttc tgtcacaaat tactatatat gcactgtatt tcatttctta ggccgcatta 120  
 attagtatgc atttgtttaa ttaatttcta aatatttcca cttctttttc atgtgtgcta 180  
 ctacacagtc tacactatag tttgtgtatg tatgagaaag atgaacacta ggttatgacg 240  
 tgtacgagga gtttgaactg tgagtcanat tactctacaa taatagtaat atctaatttt 300  
 atcctctata acaacgcaaa gctagaatat accccaatt acatggat 348

<210> 30649  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30649

gctattattg tgtgtagagg gagtgatgaa cataggatgt cttctctcac aacttctact 60  
 tggttctttt gggatcttag gttgaaagac attgattagt gaatgttttg agaaatgata 120  
 cacctctgta ttttgacaga gtaactaccc acgagtttga cagctaatag atctcattac 180  
 atcattcaca tatgtcattg ttatctaaca ttgtccctc agtctatggg ttacaacaat 240  
 tgtatattct tctctttatt ctcatatagg taccatttga agaagctcca gagcttggtg 300  
 atggacggta tgtgtttatt aatcaatgat atgcatatgt tgcaatgaat canggtcact 360  
 agtgtcatta cttctattt 379

<210> 30650  
 <211> 247  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30650

gctttcactt tccaagcatt aatttccaac atcatgaact acctaactag gaaacagagt 60  
 aaggtnaaaa atctgccaaa acacattcac atcttacagt ttcttactca aataccccag 120  
 tacattcctt tgtccgattc gtaccgtgga tnacttgaaa tttactggag attctagtca 180  
 taagnacat tntgaccgtg ggatctgtag aaatgtcaga atcaatatgt actacctttc 240

cataacc

247

<210> 30651  
<211> 422  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30651

gcttttcttt gcttggctac aaaatcattg gtttgtctag gaacaaagga tagatcctaa 60  
gagagcacia atcctatact tatccaagt atcctttttt atatacaatt gcttactcac 120  
tagcttttca ctttcatttg cttttgacct tattgcatta gcacacattt cttttgattg 180  
gtttctttat tttggttctt cttctctatt ttttaaccaca caacttatgt gttggggagt 240  
ctgatgctat atctatttct ttgcatccca attagtttca cctcccaaaa tttggggtaa 300  
atttgccttg aaccatatgc tctcctacaa tctaaacaag gtatcttgga gataatcatt 360  
taggttcacg gttcaattat ggacaaaatc attcagctca canagggtgc atatgataca 420  
at 422

<210> 30652  
<211> 423  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30652

agaccncgtg ctgttaaaat tgaganccat gnagnnatct tgacacttta gtannaacnn 60  
naannnnngg aaggagatg ttcgtaaac tgaagcgaat ttctgttact tcagatagtt 120  
ttctttgtga gtgtgctaga ataggagctt tgacatgtgg aaaatagatc catgctcatg 180  
cattgagaac tggatatct ttatggttta taccatgcat atacatacgt tgttaggggg 240  
aaatagaata gctggaaaaa tttttagtg acatgaataa acatgaattt tgtacagata 300  
tgaaagtga acgaccatgc tactggcttt ttaagatggg agtaacgtga actatgaatt 360  
cttattcatg ttggctgcgc acaagttggg caatgttaaa attttcagat ggtagactt 420  
ttt 423

<210> 30653  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30653

atacttgtaa tttgttgaag ttagtgacac ttcgtgaatt atcgataact agacgtagtc 60  
 tcgggtggttg agatacacta gtataaattt cttgtgtctt attctctctt ctattattng 120  
 aactggccta cggtttgaat gtgatcttcg cttttgaaca actctatttg cttacaaaga 180  
 tatgagacta ttgtctgac tgtcttgcaa gaattgatat ctatgttctt angtgtactt 240  
 catcaacact atcttgatgt attcaaaaag gtttgagttt ataaatttgt aatgttacat 300  
 acatgatttg at 312

<210> 30654  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<400> 30654

tcaatctgcc atagctactc agttcgccaa tctccctcaa atgctactac acaacctaca 60  
 acaagctcag caaaacatgt tgggtgttgt catccaacca cctcccatta tccaacaaca 120  
 accaactcca agtatattgc ttgcacctgt tgaaggaaaa ccatcatcac ccacaataac 180  
 accaccagtt tcagcaccaa caccaccacc gaccaatcaa gagtgacgat gatgtcccat 240  
 cataattact ttctgtcaat gacaaaagga agagaatgtt atagaaattt gatttatgta 300  
 aatacgacac tcttataaaa taca 324

<210> 30655  
 <211> 117  
 <212> DNA  
 <213> Glycine max

<400> 30655

ctgcaacttt acttggtttg ctccggactt aaaccctgtc gacacactaa tttaaaccct 60  
 cccctcttta cagcaccctt ctcatcctaa actactatcc ctggcaagac gactagg 117

<210> 30656

<211> 338  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30656

agtccatagt tccaatcaat catgctcagt atgatgcatg cacctgacct caactctcaa 60  
 acgtaatgtg gtaccatccc caaggaaata gtctaagcgt tgtagaagca aagcttccaa 120  
 gattattttg atgatgccaa agatttttaa aagatgcatt caaacaagat taaagaaatc 180  
 aagaagattc aagtgaagat tcaagagaag actcaagata tgcaagaacc tcaagaatag 240  
 ctcaagatga gataagaata atntttcaaa gaaaagaatg atagcacaat ttgccaaaga 300  
 aaaatcttnt accaaagttt ttactatct ggtaatcg 338

<210> 30657  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30657

aaaaatttct tggatagatt gaagtctttg gtcataagtt ttatttactt atgctgccac 60  
 ttgtgacaac attacatcat acccaaattc gtgtgcaatt tcgatgtttg cagtgtggat 120  
 ctgtctatac ttctctcttc aattcttttc aaatttcata ctcttcccaa tagagttgtt 180  
 tgcagtttca ctagcagacg tccaaactaa taactatcca ataaatttca ccattctatc 240  
 ttcattgattg caaatctatc taccggctaa gataaattat aatatagggtt ttctaattga 300  
 tgtgatctct ntgactaata tgacag 326

<210> 30658  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30658

agcttttact tatccaagca attcaatttc caaacatcat gaactaccct aaactaggaa 60  
 aacagagtaa aggtagaaaa atctgcccac aacacattca catcttacag ctttccttac 120  
 tcaaataccc cagtaacatt ctctttgttc cgattcggtt accgttggat cgacttgaaa 180

atcttactgg agattcctag tacataagtc tacattttga ccgttgggat ctgctagaaa 240  
 atgtccagaa tccaatatgt actacctttc ccataaccag caatgcacaa gcatttttct 300  
 gcacatttgg tcaagttggc tgcacaattt gacagctttt tgctgcacaa tttggcagat 360  
 ttcgaaattc ctcttaccca cantccaatt tgctcanatt ggantcctac agtcctaaat 420  
 catgcataaa tcat 434

<210> 30659  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30659

gctncttata tggagcacac gagaccagac aaacatgtca cttcatctat caaagtacat 60  
 attgatctac atcatgcaaa tttatgtgac acttctcatg cctaattgaa tgatntgatc 120  
 gatctatcaa cgctctatctt atacatacat aaaataacaa gacgatttaa ttcctttgac 180  
 acggttctgt ccatgatgta caacaagggtg gttacataca cattatttaa ccaattaatg 240  
 aaaataataa tatgtttcat caaaactgac ctgacccctc tcatgcttat tgagtgaagt 300  
 gattaccggg cttgact 317

<210> 30660  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30660

agcttgatg tttgcttcta tnttctccca gaaaagtata aatataagaa acataaacia 60  
 gaagctctct tgttttggct ggccattttg acatattcgt gcatatttac atagagacta 120  
 acccattgct aatagtctat attgagacgg gtcaatgggg gtttatataa ctatgttaat 180  
 tgctaatagt caatgcctat cagtatcatc acataatcca atgaccttag acttcattgt 240  
 ataatagtaa cacaatcata ttaacataat aatttacata atatgggtgt cattatgagg 300  
 atcaatctct cagacaanaa gtcaaaggaa ggcgggacac aaggacagat gcaatntaaa 360  
 catccaattt gttttatata tttcaatgag aaagagatga tatatcatca ctttgacgtt 420



caatgtatga caa

433

<210> 30661  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30661

ntaaaggatg ttntatcagt acaaaaatat atgtntttgc tctggtaatt gattaccaa 60  
tattgtaatc aattactaga gatacattac cagagacaaa ttacataaag gctttttcaa 120  
aaagaagttt ctcttttgaa atttgaattt taaatgctgt aatcgattac cacttgtatg 180  
taatcgatta cctgtgatga aatttcagaa gttaacattg aaaagtcgtg acctttcaaa 240  
acataactat gtaattgatt accaagaagc tgtaatcaat taccagtggag agaatttttg 300  
aaaaatattc tgaaaagtca cgtgtctntc aaaagttttg aaaagccacc aaggacctat 360  
aaatacgtga cttgtctacg aanaacatta gagttnttca ttagaaccta ngtgacatat 420  
tctctcaaaa caaatcatt 439

<210> 30662  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30662

gcttcttgtc tcanaaatgg cctttgcaac ataatgccgc attgctctta tggccttcag 60  
ataatgaggt atgatataac tcagaancaa atgaaatgaa gatcttctgt cttaattgct 120  
taaaaatttg ttacgttgag acttaattaa ctattctctg tttatgggcc atttatttta 180  
ttttgaccct taggataatg cctccgattt cataagggtg ggtggaattc agagactgca 240  
ggatggagaa tttattgttc tagtaagttt tttctttaat gcacactnta actnttatta 300  
caggggtttct gctcttacc ttggatgcct aaattaaaga aacatctgaa catttgtaat 360  
ttanagaacc gngngaaaat agattcatct ttgacctata ttgaccctta t 411

<210> 30663  
<211> 387

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30663  
  
 ctatagaagt aaacaagata taaatattcct cacattatat ttttagcatat gtgcataaat 60  
 aacaaataag tcataagtca tcaagacata aagcatttgt ctgaggccct ggcattctaca 120  
 agtcctaatt ctcttctaatt ggcgtagaaa gagccttttg ttagtggttc tgtgaagatg 180  
 tctgcaacgc tggtaattag tatctacaga tgctcaaaac acagtcacct ttgtcctcag 240  
 actaacggct aatngaccat caacattttac caagataagt ttttattgac atagaagggc 300  
 ttatcatatc aggatacttt atttgaaata catataataa ttttgaaaag cataaaaatt 360  
 tttatcaggc catcaagtat tcgacat 387

<210> 30664  
 <211> 333  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30664  
  
 tgctgcattt cggaatacca ttnttcgggg aaaacatgat gtttgacaga gaaaagaata 60  
 aatacaatac ggcgaaagta atgttagaga cagacaaaag gagttgcaag acatcattat 120  
 tattgtgcat aataacaagt tttctttttg gtgcagtgca taataacaag ttagtaataa 180  
 tcactacatg ttttcttttt cagttgtcgc ctttattcat cgaagtatga ctctaattctt 240  
 gagtcttttt ttttggtata aactaatctt gaattctgaat ggggtggttaa gtaaattttct 300  
 aattgaaatg atactttaat ctaaaattta aac 333

<210> 30665  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30665  
  
 agcttaacat gtagatattg gaacacatca tcgaaagcat cccacaaggt atgtgttcag 60  
 ttctgtaagt taacgagggt gaagtataac ttctcaatgg ttcttttgaa aaattgcatt 120

tgcaggtgca agaaagataa ggactaccta tataagcatg aagtntaacc gcttcaagaa 180  
 gctgggactt ggctttgata tgcttatgaa ggatagggac acaggctagt aaactagtgt 240  
 ccaacaagag taatgttata aactattgtg cagattatct tcatgtattc attatgaata 300  
 gaaagggttc aatccttagt gacaccctga tattcgaata tctgaaacgt gtaatttgtt 360  
 aagatgaaat tcaatcgtca cgatatttca tctatgcagt aatttgtggt atgttatgac 420  
 tttggt 426

<210> 30666  
 <211> 212  
 <212> DNA  
 <213> Glycine max

<400> 30666

actgcatgta ctgctgctct aatctgactg tatgcatttt cccaaaggat aatttatgct 60  
 ccaatataat acgaaaataa atgtcttgaa agaattgaaa atgtattata gaggatctca 120  
 atccaatgag atactaattg ataagcctat tttaacctct acctaaaata aaatatacaa 180  
 gatctaattct atatggctta attcgatata ag 212

<210> 30667  
 <211> 182  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30667

cacattattt ccatgacaca tatgcaaaga tgatgatttg ganatnttat gcanaactgg 60  
 tcatgcatgc acctatgcgg aactcaagt gtcaaatttt tatggatcatg ggatgctacg 120  
 gctcangatt catttcctct attggttagtc aacccaatgt atcaaaatat gttcttttat 180  
 ca 182

<210> 30668  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<400> 30668

tcaagctagg gccagattct cgtgcatgca gaggcttctt ctataaaaac tccaaactcc 60

ctttgcaaat ctgatttcag gcttaaataag gtggccttgt tcgtgctcgt gcgcttagcg 120  
 cagatctaga tcacttagcg cgcctaagtg gattgtggct taacgtgctt gtttcgctta 180  
 gcaaatgagc tgaagcgggtg cacttgatga cctggagtgt gacacccctct accccgacat 240  
 atatataaat aaataaaata tataaaaata tatttggtaaa caaaatcaca tgggtaaaag 300  
 gttcacattc acttcattta ccaaataaaa cttattaaaa acaaattc 348

<210> 30669  
 <211> 276  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30669

ttacctcctt gagataagaa gctagagctt agctacacac accccactaa tagttaagct 60  
 cacctccatg ccaaaataca tgaaaataca aaaaagtctc tactagaaag actactcaaa 120  
 atgcccttaa atacaaggct aaaaccctat actactagaa tggccaaaat acaaggccca 180  
 gaagaaggan aacctattct aatatttaca aagacaagtg gacccaacct tgacccatgg 240  
 gctcaaaaat ctaccctgag gttcatgaga atccta 276

<210> 30670  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 30670

ctggatcctg gatcctggaa atcaaatttc ttcttgaacc ttgaagtgtt cttaatggaa 60  
 tcttgaactc attctttgat tottgagatc atcatctttg gtatcatgaa ttggtgatga 120  
 tctttgagtt tttttgtatc acctttgtca tcatcaaaac ctctttgaat caatcctgat 180  
 tcaatatgaa gctggcttct acaatctccc ccattttgat gatgaccact ttctaaatca 240  
 agaaacacac acacacacac aactcacac actttttcta gccgatgact cacataaaat 300  
 tcctttctcc ccctttgggtt tttgaatata tgcttggctt aaaattaaag tgattactca 360  
 tgtgagtcct tggattaatc cctattctct cccctttg 398

<210> 30671

<211> 303  
 <212> DNA  
 <213> Glycine max

<400> 30671

gcattcgcta agcacgacac tcctgtgcta agcgcgagga agaatccaga agaagatgag 60  
 ctgtacaagt tcactaagcg caccacttca gttcatccac taagcgagaa aggcgcacta 120  
 agccaaaaat cactaacgtg cgctaagcgg tccatacgtg cgctaagtgc acgagcacga 180  
 acaaggccac ctatttaagc ctgaaatcag attttgtgaa gggagtttgg attgggattc 240  
 agagctttgc atgtctaggg tttctagaga gagaaaggtc caagttctag agagttttga 300  
 gag 303

<210> 30672  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<400> 30672

agctttcact tacatacgaa gatttgtgag tgacaaacca tgttgtcatt cttgacaaga 60  
 taaccaagag gcatgtccat gtatactccc tcaatcaa at cactattgaa aaacacatta 120  
 tttaaatcaa gctgaaacat gttccaat ttt ctgtgaggtg caatggaaag aaacactctc 180  
 attgccgtat gcttggcaac aagtga gaaa gtgtccaaaa aatcgatctc tgcttgtatg 240  
 ttgttgtgtg taaccttttg caacaagacg agccttgtat ctatcaatgg agccatctgc 300  
 tctatacttg accatataaa tccatctgca actgatgggt ctattatcgg gtg 353

<210> 30673  
 <211> 229  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30673

tgcattatca acttctcatc cctggaatat gcacccatct ttcgatagta cattgttagg 60  
 tgattcttat ggcaagtcgt ccccttgtac ctatcgaaat caggtagctt gaactttgga 120  
 gggatgacga cgtccggcac caatcaaagg tcggtcatgt ccgcaa atgg ata atcgctg 180  
 aatacttoga cagccctcaa cctcttttcg atgagatcga gntttccct 229

<210> 30674  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30674

agcttttcga ttcattctat gtaccctggg tggccacat tgtgttttat gtatttctat 60  
 tctcgcttca tttacctttt ataccnctc ttgatgtgct taagccattt tacttaagtc 120  
 atttctcgct taacctaaaa ataaaatata atttcaccga tcgcttgaat tgtattatcc 180  
 gtttaacttcn gttaaaatga attccgaccg ttcggtcgtg ccgtaaccac gttggatata 240  
 ataaatgagg tcacaaataa tataataatc aaaaaacatc tctttagtaa ataaagcgga 300  
 tatcaatcgg acgtttctct ttgggattct cattcttatt gaatngctaa taactaagtg 360  
 aact 364

<210> 30675  
 <211> 186  
 <212> DNA  
 <213> Glycine max

<400> 30675

ttagtgaaaa catgattaca tatctaggat ttttttgctt gaatgttggg aataaggggg 60  
 gttttgtcat tggatacagt gtgatggctg cttatgatta tttgaccatc ttgagtcatt 120  
 gctatggtaa atgtgacatg ctgaatatag ctgttctaaa gctacatgct aaaaatcaaa 180  
 aaaaaa 186

<210> 30676  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 30676

gtgtaatcaa ttatgatcag attgtaaccg atgaaaatag agtttttaaac attgaagaaa 60  
 ttttctaact ttagaacctt tcttcttagt cctacatgat gatgcatgat gcacgtatga 120  
 aatgatagag actaagatgc aacacacaat acaacagtca atacaaacgc cactcaagag 180

agttgggcat gtaaaagaca aaacttcttc aagttcttct ttaagcttca aggccaagtc 240  
 tttattttgc tccccttata tctaacaatc tccccctttt ttggctttga tgatgccaaa 300  
 cttgaattct ccatttgagt gcatttggag agtcttaaga gtagagactt ttcttagaca 360  
 aacctgaatg 370

<210> 30677  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30677

agcttccagt ttattttcat attntcagct cctagtttat agcttataag ctttcaacta 60  
 acttattaat tagttttacc aaattaaatt tgtagttta taagttttac ctagtttata 120  
 aatgaaaaaa taaattaagc taaaataaaa tgctcgtctt ttatgtattt tttgtttcta 180  
 ctctgctcct ctaatttagn ctcttataac tttcggaag ataatagaaa atggaatcga 240  
 ttgaaacata gtagaatggg tgaatcatga atagaaagaa ttaacaatat gtcactctat 300  
 tattaataaa tgtagatgta taatataatg gtcaaaaatt agattccatc atttgataaa 360  
 aggagttgaa taaattatct ttttattcat tatgaaaaat aa 402

<210> 30678  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30678

cttatttcat gtattcactg ttcctctggt acttgattat tatatatatt tatctttgcc 60  
 gagcaaaaaa caaatgtcta tgggcctaga gcatggcaat gcaggtgacc canaaatgga 120  
 tctaaaatag actctgaaat cattntagaa tttgggctta gtgaaaaggc ctaactcatc 180  
 ccatataacc gacttgtagg gtgaggattg ctcaaacttt ataagctcta tttaagttat 240  
 atctctagac tatgtgggac taaatactc 269

<210> 30679  
 <211> 417  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30679

tgctttctct tgccatttcc tgtgaaggca aaaatttgga aagttagttt taccagtggg 60  
acactactct taaaacaaga atggcataca acctcctccc ataaatacaa acatcaatgt 120  
aaatttagag caagcttatg cgcattgttc cttacgaacg ttcacttgcg gaagacatcc 180  
tattaactaa gaaaaatgca cccatataca atcaaggtag cttcattacc tagattattt 240  
acatgtacct ccaagggtga tttgttattt acatcacaca cacctccttg gctgaattta 300  
catacatgca tactcaaagc attntggggg accaaaaact gcacatggcg tcactcttgg 360  
atntctaaat accctacata tacaaaacttc acgatgaatc ttgactgcct acacaat 417

<210> 30680

<211> 421

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30680

agcttcaatt ctaccactaa atgggtgtaat aagttcatat ctcaactntc atacctctac 60  
attcattttt ctttctaate ctctatcaga tcagcactcc tcacatcttt caccttgaat 120  
tgacaaaacg tgacctatat ttctatgtgt gtcttctgag gtatcattcc ctaattaatt 180  
ttacattntg acaccttttc ctctctctct ttcaggatg ctgctagtta ccgtgatgag 240  
ctaaacaata ttgccccaca ctctctttta aaatgttgca gcgatgctac aacattggta 300  
tgatccctac tttcagttaa atacgtttta tctccgagtg atgtaagcta tctcaagaga 360  
aatacagtta acaaggaaaa ccaacttcct tttttaaaca gtcttttaag ttgattgcac 420  
t 421

<210> 30681

<211> 168

<212> DNA

<213> Glycine max

<400> 30681

agatattcca aactatttgc cctaattgaa aatctatttc actttgtact caagttatga 60



attaccttaa tgacgatctt cttaagtaaa tgaacaatg tggatatgaa tataaagcaa 120  
 ttatgatata aggagattaa gggaagagaa aatgccaaact cagtttta 168

<210> 30682  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 30682

ttgcttgta ttgtgagaca tcagaggcta gtatttgaat aaatgtgggt aagaaaaatt 60  
 caccaaattg atagagaaca atctaaaatc atacatctta ggcaaataag gcatgctagc 120  
 cccaacatt attgcatttt gattccatct ttacacattc aaattgttgt ttatttctcc 180  
 tggtatcttt tctttgcct tagtctaaat ttcaaactta caattccgta tctctttctt 240  
 cttttgtttc tctcatttc ttaataattg gatttgcac acttaagtac aaccaaagtc 300  
 cctctggatt taattgttga acttcaattt caatctttac tactcgtgat aaaattacga 360  
 cac 363

<210> 30683  
 <211> 290  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30683

cgaccttaga atactcagct tctcgctcan aattcacttc ttggttggtg tttttggttt 60  
 gtgctaaagg tgggtgtcgt cattggaagt gtggtagaca gactttgtgg tagatttagg 120  
 gatggccttt gtggataact ggggtgggtgg taaggaggag gtttggttatt ggctgagtaa 180  
 tgacattgtt ggggttggtgg gaaacttggc cgtataggaa tggcagtcac agcatgggtt 240  
 tctccctctt tctcaccctc ttcatttgcc ccagttttct cagtcgtcta 290

<210> 30684  
 <211> 498  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30684

agacaacggg ggaaatgagc gactcacgnc gtncnaanac ncngnacccg ggatcctgtc 60  
 agtcacctgc ggcatgcaag cttcagttta ttttgcattt ggctgaaatt aatttaagtg 120  
 ttgtattgcg tattccatga tgatacattc tgtgtgctg ctaaataaat tggctcactg 180  
 cgatggctta tgagatgggt tgccttcaga aaatggatg tgcttatatt atcttagaga 240  
 ttgctgatga gaaatgggtg accccctgat aacacgcata tgctgtgatc gctctcgtgt 300  
 gcttgctata tgacccatc accatatcta tacatcctat gactgcttta tgcactagaa 360  
 ctggtcataa gactttctga gaatatatat cgttatgcat cgggcgttta cacacngcc 420  
 cggctttaca gaacatcatc ccaaaaaact gacatggctc tcttggtgaa tttccatact 480  
 tagagtttga ctctctcg 498

<210> 30685  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30685

tagaatacta agctntgatc catgaanacg acaattatct ttttctcaga tgtcttattg 60  
 agtccaataa tataacgaga cgctcgaaat tgantgttga agctctgagc taattcaaac 120  
 gacaataact gtttactcgg atgtctgatt gagtcccgcc atatctgag acgctcgaaa 180  
 ttgaatgggg aaactctgag ccaattcaca cgacaataac attttatggg atgtgtaatt 240  
 gcgtcccgtg tcatatcgag acgctcgaaa ttgaatgggtg aaactttaga caattaaacg 300  
 acataacttt tacttgatct ctgangagtc ccgaacat 338

<210> 30686  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30686

tagctttctc tgggccattt cctgtgaagg caaaaatttg gaaagttagt tttaccagtg 60  
 ggacactact cttaaaacaa gaatggcata caacctctc ccataaatac aaacatcaat 120  
 gtaaatttag agcaagctta tgcgcatgtt tccttacgaa cgttcacttg cggaagacat 180

cctattaact aagaaaaatg cacccatata caatcaaggt agcttcatta cctagattat 240  
 ttacatgtac ctccaaggtg tatttggtat ttacatcaca cacacctoct tggctgaatt 300  
 tacatacatg cataactcaaa gcattntggg gtaccaaaaa ctgcacatgc gctcatcttg 360  
 gtatntctaa tacccttaca tatacaaact tcacgatgaa tcttgactgc ctacacaat 419

<210> 30687  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<400> 30687

ccttgccctca tagaggtcca ggatggactt tgcagccgaa tgatctagtt ccgctccgga 60  
 gtatgacagt caccgcttta tgagcgctgt acaccagcat cgcttcgagg ccatcaaggg 120  
 atggctggtt ctccgggagc gacgcgttcc tctcatggac aacgagtatg ctgatttcaa 180  
 tacgaaatag ggcgccggcg gtgggcatca ctggatactc ccatacccag tttgaccgga 240  
 aatagtcctt gagtttatgc catgcttggc cacaagatg gcgtgctgac atagatcctg 300  
 cgtagggctca gtgaatctgt ttgtgcca 328

<210> 30688  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<400> 30688

acttgatgat tggtactgtt tctcaattat aagataagca ttgtgttatg acttggttct 60  
 gattatcaat ttaagataat gatgactcct tcataactct ccatacctga agtggtatgt 120  
 aaaggtgata atatgtaatt tgatagttat ttaaggaaaa aatgcctaag tctatactaa 180  
 aataagttgt cattattaaa atgatgttac aaatccactg attatatttg ggggtgaggt 240  
 caatggctca agtatcacat tgaccactgc aagattttac ttcattgttaa tatactttaa 300  
 ttctttatct gatgcaattt aatctatcta tcgcttatga ctacttaaa 349

<210> 30689  
 <211> 273  
 <212> DNA  
 <213> Glycine max

<223>        unsure at all n locations  
 <400>        30689

ntgcggatgt ggtcttcgcc ggtgaattgg tcgaagcgga tttgaaaaga ggaaaatgta    60  
 atcatcctgc ttggacgaat gagaaaattg gggcaaatga agatggtgag aatgaaagag    120  
 aaacccatcc tgcgactgct gtttctacat gggaactccg ccaccagctc aacaatgtca    180  
 ttacatagca aataacaacc cttctccgtt actaccacct aattaaccac aaacgccatc    240  
 ccttaatcat ccacaaaacc cacctgtcac aca                                        273

<210>        30690  
 <211>        456  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        30690

agcttgaagt tatatgttaa aataactnng tgtattcttt ttacattctc ttgcaacagc    60  
 ctncacttga gnnttatcat tanannagtg ttcagggaaat nntaatccaa acctattaan    120  
 nattgatecc aataanaatt gatnaatcga gcanaattgt tatanaaaaa tacctaaaca    180  
 cttcaatgen agttcggttt tgtgattctc atgttcaaaa ttgaactgag tcaaattgga    240  
 aacgtaacta aatttatatt agtcttattt tgtcttcttt ntttactgca attcctatat    300  
 atttatcttg aaatacaatt taaccttatt tgaacttata ttattatttc tgaataactt    360  
 gaagataatn tgcaatntag tctgtgattt agatcaagtt gtgggttttat gaccagaatt    420  
 aatagtttga aatgatattt ctgtatatgc attatg                                    456

<210>        30691  
 <211>        465  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        30691

ggatgtgatt ggggacctga gactcaaacn tataaaaccc ngaatggaca tccggtgaac    60  
 ctttgaaatt ngaatttatt agagcttccg aggttcaatt tcgagtgtca atatatgtga    120  
 tgcgccatat atggacattc gagttaaatg ttatgaccct ttaaatatct caagagctta    180  
 cttggtaaatt ttcgagcctc taacatatta tgcgccccag tcggacatac gtgtgaagag    240

ctatggccat tgaacatct ggcacagtta tcatgataa atttcgagct gatcgggtatt 300  
 ataatagccc tgaatcggac atccgagtgt aaagatatga ccatttgata ttctcaagct 360  
 ctttccgtga tgcatttgta gcctcttaga atataatgcg cccgatatag aatccgtgtg 420  
 aaaagttatg atttataaag tctcagaagt ttcgagtaca ttccg 465

<210> 30692  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<400> 30692

agcttgtttg ttataaagac ccaataattc tacctattgt tgcattcta tttaccatgc 60  
 attttatagt ttttagcata aaagtttagt ttaaattctt tttgaaatta tcaactatac 120  
 atgttatctc aacaatgctt caattctgaa cttaattcag gctaacatta acctcccata 180  
 cttccatggg aaggataatg tagaggctta tttagattgg caaatgaagg ttgagcaatg 240  
 aatgttcctt tagctaccct tagcttccaa gggtagctc tctatagggtg gacttcactt 300  
 gttatggaaa gaaacattca ttgggatcct ctaatagagt attggaatga cttgaaaa 358

<210> 30693  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30693

gagacngaga ccaacatgtt agctatcatc gccaaagtacc aagaagagtt aggtctagcc 60  
 acgggccacg agcatagaat cgcggatgag tatgctcaag tatatgcgga aaaagaggct 120  
 agaggaaggg tgatcgactc ttacaccaa gaggcaacca tatggatgga ccggttngct 180  
 cttaccttga acgggagtca agaactatca cgcttgtag ccaaggccaa ggcgatggca 240  
 gacacctact ccaccncga agagattcat gggcttctcg gctattgcag catatgataa 300  
 cttaatggcc acataataga aatcgtatgg acttgatggc tctcaacctc actgatacga 360  
 ctctttttga ataaatgagt ggtcatgttc tctcg 395

<210> 30694

<211> 207  
 <212> DNA  
 <213> Glycine max

<400> 30694

aaaattgatt ctcacacccg aagctgtgcc tttatggaga atcctccttc ggcttatcga 60  
 ttctatgtgg ataatggcga cagactgtgc atattcttca tcttatgcat attttctatt 120  
 gttctgccct tgagctctca gaaagtcaac aatgggtgggt cttgaatttg catcctgcat 180  
 gatacatacc aagtgtccat ggcttgg 207

<210> 30695  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30695

agcttgtaat tgatgcttaa tggaggaaaa gaaagaggga gacaaagaga gatggcgagg 60  
 gcacnaaatt gaaggaacaa aagagggaga gaagtggaac tttgaagtat gtctcacaag 120  
 actctcattc atcaaagtta caacaagtgt tacacatgct tctatgtata gactaggtag 180  
 cttccttgag aagctntctt aagaaaactt ccttgagaag cttctttgag aaaacttgct 240  
 tgagaagcta gagcttagct acacacaccc atctaaaaac taagctcacc tccttgagaa 300  
 gcttccttga gaagctagag cttagctaca cacaccatc t 341

<210> 30696  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<400> 30696

gaataccatt tttcggggaa aaaatgaaat cgacagagaa aagaaaaaat acaatacggc 60  
 gaaggtaatt atgcaagcac aactatggga cattctcttg tgggtactact ctctgttgaa 120  
 atagggattt cacataactg atattgaatt tggctcattt tttatagacg atctgacatg 180  
 aactctcatc ctttggtgct cctctaatec atcgaagtat gactctaate ttgagtcttt 240  
 ctttctggta taaactaatc ttgagtctga atgggtgggt aagtaaattt ctaattgaaa 300  
 tgatactcta atctaaaatt taaactccaa aggggtataac t 341



aagcaagctt gttgacacgc agagactaac gttgtcttct gcaccttttg tcatccagag 300  
acggcgagtc tgatgacatg cgagggtacc ttatggttat ccgcaccttt tgtcatccag 360  
agacngcgtg tccgatgaca ttcnngnggta ccatatgggt a 401

<210> 30700  
<211> 522  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30700

tgatattatt tatctanggc atntcccatt ttaccttang tggcggaaga aagtcnaga 60  
gagctgtnga cntctcnnga ttcttattcg cttagaacncn natatcgcat ggggggagng 120  
gcgttgctat ggccctggaa taatcgaaaa catagtatgt agtatgttgc ctcggtanga 180  
aaactaaacc ttgtgcccان agatcccgtc tctctatact tctcattcac cttatgttat 240  
ttcatatcgc agaaaacact cttggctttc catacgcgcg tgctttgtga atgcaaactt 300  
gatatgaagt taccgcacta ctnatcatct tgagcggttat actcaacgaa ccacttgtgt 360  
gaaactggga tgttataata aggccatgat atcgtggagg tctaagtata acgacaactc 420  
gcgaagtcaa tgtgggctta cctgcgaaat acatgtggga catgttacat gagcccaaca 480  
aactcagggg ctcttttgtt tcaactaaga acgaacgtgt tg 522

<210> 30701  
<211> 319  
<212> DNA  
<213> Glycine max

<400> 30701

tcagcaacta tggctattgc tacgcccact ctctctctcc atttcgcaa attccccatt 60  
cgtcaaacgg attcatcttc tccaatacgc catcgcagcc cttctggccg acggttgaat 120  
ctctattacc ctctagttc tcaaaggcta cttttttttt gtttgttctt ggttaaatga 180  
aattgaaatt tcgaatttgg attctgagtt aaatgttaac cgggtggttgt ttgatatctc 240  
cttctgttct attggttaca gaattgcgtg ttggcactga tgtgcatttg gatcattgtt 300  
gcaccgatgg ggatgggga 319



<210> 30702  
 <211> 506  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30702

aaaaaaacgc ggggacggaa ctgagcanag cactncaann cncnngaac cgggatcctc 60  
 tgagtcacct gcggcatgca agctgccatt ggtatttgat ggtgcatca tccactgaga 120  
 ctaggcaagg ccggaccctn ctatacaagg aggctatggt attcaaagaa ctgtgtaatt 180  
 tttaaaaccc aactaaaatg gtttgagccg tcaaattctg gaacatctag tttcattctt 240  
 ggtggatagg ttaagtgggt tcgtgggtgca agtatgactg aagacgacta acgtgaagct 300  
 gtctgtggtg aagtgtttct atgggtggtga cactgtgtta aggtcatcaa gtttctcact 360  
 aacgtggaat ctgttagatg ccaatatggc gatagctctc tctatgcgat cctattggat 420  
 atggaccgcc ttnattcacg catggtgagt ctctatttga agcacactag atggtctgag 480  
 ctgacatcaa tgctatatcc tacgcg 506

<210> 30703  
 <211> 93  
 <212> DNA  
 <213> Glycine max

<400> 30703

gtttgtgggt agtaatttga ctgatatgta ttcaaagtgc ggggagttgt ctgatgcatg 60  
 taaagctttt gaggaaatgc cttgttaaga tgc 93

<210> 30704  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30704

agctntgatc canaatcctg actcaccata naccttgacc caaggtgaga atgccaatcc 60  
 ttatcctcgg aagcaaaaaa agaggagaag aaaatttcca atcaaaggaa aaaggagaag 120  
 aaaatntcca atcaaagaac aagagaaaga aaatttccaa tcaaaggaaa aaaaggaagc 180

aaagaaattc ccaatcaaag agtgggagaa agaaaaaaag aaaagaaagg aaattcccaa 240  
 ccaagaatg ggagaaagta aaaaagaaga aagctcctga tcgaaagaaa acagaagaaa 300  
 tgtgcagaga ggtcttttga cgggacaata tctgaacaat acagaattgt caccaaattg 359

<210> 30705  
 <211> 220  
 <212> DNA  
 <213> Glycine max

<400> 30705

aacgttctct tgcacaagac atttatatca aagaatgcac ccatatacaa tcaaggcagc 60  
 ttctgtcatct agattattta cacgtacctc caatgtgtat ttgtaactta tatcacacac 120  
 atctccttgg ctaaattcac atacatgcat actcaaagca tgtaggggta ccaaaaattg 180  
 cacatgtgca cctcttttga tatctaatac ctatacatc 220

<210> 30706  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30706

ctcacattca ctatcttcta catcatattc aaagttgtct aaataaataa taaagtcac 60  
 tcgactcata gaaaatcata taagtctcat acaattaata tagaacctat atcctaattg 120  
 cacatcctat cagagcgtgg tgttcccggtg tcctctagca tgagggttctt catagtcac 180  
 cacctattca tctgtcccc cgaacacaag ttcaagatca tcacangatc caaacacaac 240  
 aacacacagg gagtgagtta tcacattcct atgctataga gaaacatgac aattatatat 300  
 acatattata taaatgagat accacttgct taaacatagc tcacgtaact tcaccacttc 360  
 atcattcaaa attcactctt caatta 386

<210> 30707  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30707

atttacaaca gtgttacaac agaacctaac tgtntctaata tatatggggcc attaaatcta 60  
 tcatgtgttg acagtaattg attagcccggt gaatttcctc tggagctgaa cacacttcgg 120  
 ccatggccct tgctgtggct agtacatgcc ggagctcttg acttccattt aagggtcaagg 180  
 cgaacctatc catccacatg gtcacttctt gatgcaatgc atcaatcacc ctacctcttg 240  
 ctgtcttctc ggcgtatgct tgtgcgaaga cctctactag ctttttctca tgggtcaaag 300  
 attggtttaa ctcttctatg tactgcccta atatagctat aacctgcttt gcttcttggc 360  
 ttctaagcgt gtagccaaac tattcttggga tctgagcaac cagtaactcc tccttttagac 420  
 atgccatgac ctctgattgg tcttttctc 450

<210> 30708  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30708

tgaaaccttg tacactggaa tccagttagt ccctggatct ctgagcacct gcggagcagg 60  
 aattttaact ttgacagtcc agttcagcgt ggcacatttg tatggtgtct gtggcaacga 120  
 tgctgtcct gagatagcct acttcatact agatgaacct acatagtgtg gagccactg 180  
 cccccggtgg ggctttgaac gctgtacact gaatttagca caatgacccc catcctgaac 240  
 tggagcggtg caccgctgg tttaagaatt catgactccc tatgagatat ggcgcgctga 300  
 ctattgggga cagtcatgac gttggggaga ttaactgaca aagcgcgctg gggacactct 360  
 gatggtacgc gctaactcag tgggttatta caaaggaccg tgtccttaat ggggtccgagc 420  
 ttggtccgcn 430

<210> 30709  
 <211> 221  
 <212> DNA  
 <213> Glycine max  
 <400> 30709

actggccagg cccaaacaca catgcaagac aaagtgagcg aaaccgagca gcgcgcagag 60  
 aaaaaacgca gactgacagc tgaaccagta cctgacgcag aacaacacga aatggaaacc 120  
 ccagcggaga cacgcacggg cgccccaccc cccgagacag aacagggcga cacaggcccc 180

cacaacgaga ggcaaccacg acccagaacc ggacacgcga c

221

<210> 30710  
<211> 299  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30710

agctngcatt atatcttata cgagattcat tatcagatga actatccaag atagcatcaa 60  
catacttctt aaaaagggtgc tctccaagga tttccatct tttggcttca atttaacatg 120  
agccctaccc tgaaaagctt caacaagtac ctaccttgtt ctaaagagag ttatcttaag 180  
aaatctaaca tactcttggg atggaggtgg ngcgctctat acttccatgg ccacattagc 240  
aacaacaaca cgtgcctcat catcaaaatt cacctcttca atgatggatt gtacaggat 299

<210> 30711  
<211> 247  
<212> DNA  
<213> Glycine max  
  
<400> 30711

tctatccttc ctaagatgga gcctttccca ctactctca ttaagaacta acggtgtcaa 60  
tggattgaac ccatacaca cctcaaaacg tgactgcttg gaggttctat gaaccaccct 120  
gttgatgcc aattctacat gacgaacata ctcatcccaa gacttatgga tgcctttcac 180  
aagagccctt catacgggtg ataacgacct attcactacc tatgggtgcc catcaatttg 240  
tggatga 247

<210> 30712  
<211> 357  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30712

agcttctctc ntttcttgt taattattat attctgtttg taagccttgt attttgctat 60  
gtttttatga catttgaaca cttagtattt cttttaata tttgtttagt atgactaaac 120  
atgatgatta cttgctcttg gttgattatg gttatgagtt ttaaacttaa ttattttgat 180

gatatatgat tagtggtatg tacttttatt tggttattat gaatgactct ctggattata 240  
 tgacattcta tgaagtatta tctttctaag atngatgaat gtgtaagtta tcttggttga 300  
 tagatctcta ttctcttgta tgattagaaa tttatgtatg tttatatatg tacgcac 357

<210> 30713  
 <211> 203  
 <212> DNA  
 <213> Glycine max

<400> 30713

aaagaatgtg actcttccaa ttgaatatgc atatctatgt tcacacacac tattgatcga 60  
 ctaccaaaca gatgtaattg attacatcat ttcgatatta tttggaacgt tgcacattca 120  
 gtttgtaagc ttttcgaaaa ccatttagct attggttaatt gattacaata atctggtaat 180  
 cgattactag acagtaaata ctc 203

<210> 30714  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30714

tttctacatt tttcaagacc gacggccngc tttgttttag cggacacaat cagacagccg 60  
 agngagaagt gatcgccgag cgaacngact ccgacactaa acagtcaata tcgagcgtcc 120  
 tgatataatc cgggactcac tcagacatgc gattaataaaa gtcgttgtcg tttgaatgtg 180  
 ctgagatcat taaactttca ttttgaacgt cttcatatat taccgcactc aatatgacat 240  
 ccgagtcata agttattgtc gtttcggtct gtaccgaacc tctgcatact gtttcaaaca 300  
 tctcgaattt tacgaaactt tttatacatg tgagaaacag tttttaccag tcgtatctgc 360  
 ttgcaactct tctattttta atcgcggtta tatatcacn 399

<210> 30715  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30715

tgaaaccctg ttganccctt gaaanacttg ataccatggg gacacccgca ccatanagtc 60  
 acaataccgg cacnagctct ttttcccggt tatttgatc cggccgcaag tttttgttgt 120  
 atgctgaggg cgacacgcca cggggcgagc tacttgatgg tatagatcac acaccaggt 180  
 cctgtgcatg tgctataaga taccgacta ctcaatctag cttaatagat gagagcaacc 240  
 atggatcaaa aggttctttt cgaagcgagg gatcagatac tagtcgactg gtgacgccta 300  
 gccaaagtttt atgcacaaac ttaggacact tgctcaggtg gatacgctcg gtctctcacg 360  
 tgggggatta tcaatgaaaa atgaatgtct ccattgtcgc tagtatatat tgaccgctga 420  
 aatgatcggg cgataatatt tggccgtact atagaaggaa atagaagtgt catataaacg 480  
 ctcaactagg cctccc 496

<210> 30716  
 <211> 453  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30716

tgaaaccttg aacactgaaa acnggtgatt cactggacac gggagactta gagcgactgc 60  
 ggcaagcttt ctaattcgtc ggcagcaaca gtgtttctca tcgctctaca tgacatagat 120  
 atctacgctg caaacaatg gtactaatac atcatctact cttatatcaa cacaacgcta 180  
 ttgggctatg catcacatct ctctgcggag ctctgcgttg gcatgctagc tcattaaaat 240  
 gggagcgtag aagcctgaca ccattgctaga gaagtctgga tagcgacgta gttcttttagc 300  
 tcttgtagca catcgtgagc tgatgacatg gcaccattgg ctgagagacg cccgatacta 360  
 acatattgaa ctctgctgta ctatattaca tgagtgtata tcaagaccaa ggcacggctc 420  
 tactgacgga tagagagccc agacactgac tgc 453

<210> 30717  
 <211> 348  
 <212> DNA  
 <213> Glycine max  
 <400> 30717

cgccaaccct ggcacttgcg gcaactacgc cgcccagagg ctaactgtga ccttaacacg 60

ctgggacccg cgacagagca gcagttgctc agtatcacac cggccactgc cggcaacgtc 120  
 aaacagatga cactagagacc cccggcgacc gacatacagc gggcggcggt caggaaggaa 180  
 aagcgcccaa tatgtgcaa ccgaacaccc aactcaatcc gaaaaagggg aagaacccaa 240  
 aaccgcaagc cgacgaaata cccgaatcgc cccgatgcga aaacgatcag ccaacgcgca 300  
 cccgaacgtc atgatacagc cagaccctc gcacacaaag tcaccaac 348

<210> 30718  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30718

tgtagattgt tagtgggtgat gaggaaaaag tccctcagca tcgaaggcta gctacatcga 60  
 cacgtagaca acaaacaact atagatgttg caaaggatgt tgagaatgtg gataatgttg 120  
 ctgatgagcc tcatgaggag cctcacaatc tagttacaaa ggatgtaggt ggtgattcac 180  
 agggttttcc aggcggttcc caagatacat caatgttgat gtcatatgtt gatcatgttg 240  
 tagccaaagt gtggatagga gaggtagtta tttgtttaat taaaacttat ttaaataact 300  
 atttatcatt ntaatttaca tanaataaat ttaattattt ttaaaacaat actgagttga 360  
 agttggcctc tcatgg 376

<210> 30719  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30719

ntatgagaat ccgcattcaa aagcaccatg aatattcaat tatatgattn ttaattatta 60  
 attaataata taattaatta actttntaaa cattatTTTT aatttttttt ttcacaaact 120  
 aaaagagaga taaaagataa tagaaggctc tgagatgaaa gaaacatata cttttaattg 180  
 tggagtaatt ttgaaaaaaa aattgattat tctattactt ttaattgttt gataccattt 240  
 gtcattaaga tctccttcaa taggaacttt cttatttcca accattgaga gattaccctc 300  
 gttggccaat gagaagaaag gcaaaatcaa agtntgtttt tggttttaat accccgtcta 360

gatatggaga cgagaaaaag gtaaaatgat taaaatcacg tcgaaataca attataatta 420  
 caaatctgtt gtctagcaca atct 444

<210> 30720  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30720

agctggtatg ataatggggt acccatcaca tgtggtacta ngtagggcgtc gggcgatggt 60  
 gcacaacaag tttttcacat ccacaatgca cgcataaacc caccatcccc tgttgccac 120  
 ctccaactga gctcgcgtac tcccacgtag cccatattct cgtttctctc aacaccgggt 180  
 ccccatcaat cctcccaagc ttccacaaca tccgagcaaa acaacattca gacagcacia 240  
 gctatcacag ccaagcaaaa cagagcaaa gagaatact ctgctcaaca catcaacca 300  
 aatcacatgc tttctcactt aaagaccaca ggtacaattc ctctatcca attcgtaac 360  
 cgttggatcg actccaaat 379

<210> 30721  
 <211> 158  
 <212> DNA  
 <213> Glycine max  
 <400> 30721

actcacttac actgttggtc cttttttctg tgtgtttata atgatattaa ttagctgct 60  
 attttttgag ggaacacacc actatttttt gtttgattca ctcaccaat atgggtaatt 120  
 gatatatgga ttgttatttg gaactggaat ctttgat 158

<210> 30722  
 <211> 373  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30722

agcttgatg tgcatgtggg cgtctatttc gactttccta tgctgtctct acatacataa 60  
 aacagcccca ccacccaat ttgcaaaat catatatcat tggggcattt caccgagcac 120



ttgatgggcg catgttttga cataaattgc aagagaatgg gggcaatgtg gcatgcccc 180  
 ttgcttcaga atacaacata ngcctaaggc cttctcattc aaataactcaa ctccacaaaa 240  
 caagcatgga ttcagatgca aattgcttca cgaattntac aaaaaatgag caactatagc 300  
 accaaaaacac atcaatggag agccaaataa ccaagggaaa ttgcacttac ttgtggggag 360  
 tgatttatag cgt. 373

<210> 30723  
 <211> 1072  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30723

agctcggccg gaggcgggcg nacntcnagn actcgggacc cgtgctcgtn tgcgantagt 60  
 caaataatag anaccacgt cgnctntent acnacnctc cncnncccc cccaaggatg 120  
 atgcagcagc gttttgcanc nnactagttn gngttgtaga aaactcanta ctctgcgang 180  
 ancatacgtc antancnncg cntgtantcg acancagatc gacgtctacg atngacgata 240  
 ncgacaacat cagcntatta cggagcgacc agaccgatct gtactngtgc gtcgcatttt 300  
 gantcgacat ctgcantgaa ctaagccacg gtcctgngtg acatccatcc atgtancgta 360  
 tatgtacgta ctaagntaca cataactaatg tccgntcgcg ttgataacta cganancgtg 420  
 cgttgtaactg catcagactc atacgagcgt cgacntcatc tatctgtcct gtgnganana 480  
 tcgtacactg ctcgatatgc tgctanagtc agtcgatagc tgcagtgatt acgcgtcgaa 540  
 tgtactgtgn gaccngacga gtatgcatgc gngcatgacg cacacatact cctcctcgcg 600  
 ctctgntgcn tcantnaagc gtacgcgatg agatcagcta ngacgcantc atcacgcgaa 660  
 tcatagtcgc gcatgcagat cgagcatagc tcgataagtc tcgacacggc tgcgacntat 720  
 cgtgcactac atcgtctatg actgaagtcg gtgtaatcga tgactcatga tatcgcantn 780  
 ancatataga tgatcggaca cacagntcta cgagtatgtg tatcgtgtca acatgcgtat 840  
 gaacaagtgt caacatgcac nagacgtacg tctccgntgc gatgaatatg gatgactagc 900  
 ctacgtctac gtcactact gtanagtcgt cagccgacac tgctatactc tnatagtgcg 960  
 aagagtatcg catacacgaa cgagtatang cgctgcacgc acncgatccg antgngtcta 1020  
 cngngctcct aacgtgatac gcataccgca gactctggcg cacacgtact cg 1072

<210> 30724  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30724

agctntaata taattttttt caaattatta gngtatgtat ttatcgaata atatataacc 60  
 tttatatgtt ggggggttaa agatgtttca gattccatgc tatcttcttt tcagttgcag 120  
 ctttatgcca aatcaagtca ctacttgaat aaaaccaatg ggatgctgag cttcactagc 180  
 gaattgatag gtaaagaata tagaatgtga tactaagtaa aaggatttca aacaaaagga 240  
 taaagaggaa cggcacatag tgggcatttt cctaaataaa gtataaaagc atatgttctg 300  
 aatgtnttcc ctcataaaat attattgacc attgcatttc acaatntggt aatacctctg 360  
 ctctctctcc attttctgat cactnttcta c 391

<210> 30725  
 <211> 505  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30725

gatgccccac atagaacncc natgcgtgna gggtcantct atagaacctg caagctctga 60  
 tgggtgctgac aagacatcac atgtntgtca tcatcaaaaa tgtggagaat gtgaatgtct 120  
 ccnnnncccc ttttcttcta ttctgtacata taatactaca atgctgcctc acctgattat 180  
 cactttgctt ccaatactat tttatactgc tccaccaac aatcctctgt actcacattc 240  
 gctcaaatec atccttgaca ttcgcaaccc tctttctctc tgaccagtt tccgctttga 300  
 tctctacaa tctaattctc tactcactcg ctatgtcacc gtcgcgcatt tccggcctct 360  
 gcacctgag caacctctct cgtcccgctc ttccgatctc gtccggaata aagcccgatc 420  
 ccataacctc cctatactt atccagtccc aatctcgcta tccttgccgt accacctcac 480  
 ctatcgtctc tcctgtcac cctcc 505

<210> 30726  
 <211> 359

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30726

agctntgatt caaaattctg actcaccata aaccttgacc caaggtgaga atgccaatcc 60  
 ttatcctcgg aagcaaaaaa agaggagaag aanatttcca atcaaaggaa aaaggagaag 120  
 aaaatttcca atcaaagaac aagagaaaga aaatttccaa tcaaaggaaa aaaaggaagc 180  
 aaagaaattc ccaatcaaag agtgggagaa agaaaaaaag aaaagaaagg aaattcccaa 240  
 ccaaagaatg ggagaaagta aaaaagaaga aagctcctga tcgaaagaaa acagaagaaa 300  
 tgtgcagaga ggtcttttga ccggacaata tctgaacaat acagaattgt caccaaag 359

<210> 30727  
 <211> 466  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30727

gcttatgcmc atatttcctt acaaacgttc tcttgacaa gacatttatt cgaanaaatg 60  
 caccatata caatcaaggc agcttcgtca tctagattat ttacacgtac ctccaagggtg 120  
 tatttgttac ttatataca cacatctcct tggctaaatt cacatacatg cataactcaa 180  
 gcattttggg gtacaaaaa ttgcacatgt gcacctcttg gcattttctaa tacctataca 240  
 tacgcaaact ttatgatgaa tcttgactat ccacacaata aggtgctaca tttcatgcct 300  
 ctttttcaag tttttgctac ctanagccgc atgcanaatc aagcatattt tcttttgctg 360  
 actaaaattg tattcaaatt aaaaggtata ntttttgtaa tatgttntct tcacataaca 420  
 tngcacatat ntatatatan ttttttttgg tgagaacatt tgacta 466

<210> 30728  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30728

agctgactta cactctgagc atanaagtgt gtnttctttt ntagaatgta tatangtgta 60

tggcaattag aatatattaa atgttcttgt atgttgacat gggtaatagg atactttcta 120  
 cacatgcgcg tgtgcataaa tggattacat gagtttggtc taaatcagaa gggctagcac 180  
 gacatttttg cgtaaataata agcattatct tgtaaaacta acttctanat gtttgttctc 240  
 gcaggaaatg gccccgagga aacttgcttc anagagatcc angaaggata aagcggccga 300  
 aggaactagt tctgctcccg agtatgatag tcaccgcttt aggagcgtg aacaccagca 360  
 gcgcttcagg gccatcaggg atggtcattt ctccgggag 399

<210> 30729  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30729

ntacatctca ggctaagcgc atattcctga aatctttgtg ttgcatatag tgctaagttc 60  
 cacctactgc gctaagcccg gatgctcatt ggaatttgaa acttcaaatt gggcttagcg 120  
 tgaggtagg ctaagtgcg gggctttaa ctcaaagtc atattggcat gctaagtgcg 180  
 ccaaacaaaa atgctaaaat gaattagaac ttccataggt gggtaccttt acacaaaact 240  
 tttgcttctt ttgctgagct ctcttctgt gtgtgagcat tatgctgttg tgctcaagt 300  
 actttctaca tcttcttgca tttaattccc atccaagtaa gtagtgcttc atttccattn 360  
 tcatactgtg aaacttagga tagacgatgt cttgctttgt tagcttgc 408

<210> 30730  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30730

agcttgaata tctntgatct accaaagaaa ctaatgagaa gaataaagat ttcttgact 60  
 catctgctac agacataatg taagagctan aagggccctc tcaagaagtg cagacacctt 120  
 gagtttgtc aaaaagagtc tatgaattgc ttatctacat ggatcgatgc ctnttatgga 180  
 attgaacaga gtcattttat tcgatatgct aaattcttca ttggtgtaga atcttaaaca 240  
 atgcttttct attttttttt gattgttaac aattcacgta atctcttttt gaacaaattg 300

caccctaatt tct

313

<210> 30731  
<211> 489  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30731

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aaatctgacc cattaagccc atgaacctag gtggctttgc gaataacaaa cttctcttta 120  
ttaagatcca tatatttgta ttgagtttta gggctctgacc cgtgaactta gtaaacttta 180  
tocatgaact cgtgaagtat ccatngaate cgcctaatat gtgtaagtat ttataatttg 240  
gtatgttaaa gttatggcca atntacattg tgattgctaa tttgtagtgt ataaaatatt 300  
aatatgattt agtgtgatag atcttagctt agaaaatgat ttcatttggt tcttcaaatt 360  
ttatatatat tcaactttttt tttaaaaata acttataata aatactttgt tttcaatata 420  
tcatgtgtca gggcgggtcca tgtatttgcg ggctttacga atcagatatg aattcttaga 480  
aaaagtcta 489

<210> 30732  
<211> 362  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30732

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tgggcccggt gctactgcct ctgagttctt tgctctcttg ttgcaccatc tcccacgcct 120  
tgtggacctt ctgaagtgcc tccacgttgg tcttattgaa gctcgtgca atatcaggtg 180  
tgagctttta ctctagtggg gctcctctca tagggtagcc aagctgtctt atagcaagaa 240  
cgggattgta actgatgcaa ccccttgctc ccatcaaggg aacatatgga aatcttccgc 300  
acgaaataaa agtcctgggt cttccttctt tcatcgaggg aaccagtcac agacactcct 360  
tc 362

<210> 30733

<211> 174  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30733

attactacac tcgattaaca cgtcttacct atcnatgttc caatcataat gtttctcggt 60  
 gcatccaacg ttcgtctgta acagtcaacg tttaaattcg ggcttggcga tctaacttat 120  
 gggattggac ataaatggac aactaaatct gtgaattaca ttaacaggga ctta 174

<210> 30734  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30734

tatctntgat ttcccgaaaa ctcacctcgt tttatctgtg cattccaaat tctcaaaaga 60  
 gtcagtcttg tggcatatca nattgcatta cctccgtgtc tttctaacct ccacaatgtc 120  
 tttcacatgt ctcatctcca taaatatatc catgatccat ctcacatggt cgaattagat 180  
 gaagttcaag tgaaggagaa cttgacatat gaaacatttg ctttgaggat cgaggatagg 240  
 cagacaaagc acttaagaac gaaagagatt ttattgggtca aggcagtctg gggaggtgct 300  
 ttacgatagg aggcaatttg ggaactagag attcaaatgc gagaagccta tctgtcttg 360  
 tctg 364

<210> 30735  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30735

gccctgaact gtgacctgan ctcaccttag aacgcgaagg ggntcaaaaa ttgttaaatt 60  
 tcgacccgga ggatcgtaaa tcaacgcggc cctgtggcaa tatgaatctc tggggcgtag 120  
 actgatttat acgttgagag gaccgatgaa tctgacttag cagtaacctt attgttgcoct 180  
 ctagtgtaaa atgcaagtgt tgatggactt atcatcgtgg ttgacgttct cttaaaaaat 240  
 ctgataagcg agagagttaa atgcttggct tgagctcagc gagttagtgt gcgtgggaaa 300

<210> 30736  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30736

tgcttgagtg tgtagatgat gcaagtgact gagacaaaga ggatgagaaa gacaagaagt 60  
 tctggtaatg ttgggtgcta tgggtgcaatg ggagtggcag ttgtggagag gtgtggcgac 120  
 agagatctca cgtgacattt tgggaaccct agaggtaaga atagagaaaa acatttnata 180  
 accaagaatt taaagcgcca gagaatataa agtgggagct acatattgaa caaagagaag 240  
 aacattctaa gacggttttt acaaaaccgt cttggaatga cagtcttcta aaacgatgtt 300  
 cacaaaactg tctctgttga anaatccata tntacaaaga tgtcactgtc ttatatacta 360

<210> 30737  
 <211> 187  
 <212> DNA  
 <213> Glycine max

<400> 30737

cctacttact tatactaacc caatcgagc attaagcccc agttgttctg aaatgaagag 60  
 gcactccccg tatatagtaa gtaccatccc ggtttcacct ttctagctgc cgttctctta 120  
 cactttacag ctacgaaatc accttcaatc tactaaatta taccattttc tataaccatta 180  
 gtcgtca 187

<210> 30738  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30738

tgcttggtta ttatgtaata tgaatttcga catactatga aagaaggttc tgaattctga 60  
 tgatacccat aatcttggtta ggtgcccgctc actgtcagaa tatatattcct tatgggtgcat 120  
 taagttaatc tttcattatt tcaacttcaa tggttaacagt gttattatca cgatgagaag 180

gtgcgattat ntcgatatcc tgatcgtttc tttagtttaa gatataatattt ttgttgatat 240  
 acacttaatt tggttcanaa caagttattt ataataaac aattatataa aaaaactaac 300  
 tgatagatta tcatt 315

<210> 30739  
 <211> 368  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30739

tatagattat ctagttgccca ctcatgcaac catttctgtg tcaactgcac acaaagagaa 60  
 ngtagtcttt attctttggt gtatccttct attatccttg ctaattgtta tgggaatctc 120  
 tttctaccta ggcaactatg tgctgatcac aatatacata ttattgtaat gctcttaacg 180  
 tattatcaat cccagcaatg gaacaaagct caagcgtgct gtaaaatggt ggtcatcaag 240  
 atatgggaca acttcaagac gttctgtgaa aggaatatct ctctttaac tgctggaatg 300  
 tgacatgtga ttaagcaaag aactacagtc tgtgtctatg aggtaaaaat cagtcttgcc 360  
 tcctttga 368

<210> 30740  
 <211> 767  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30740

tctctaccct gcaactctact atccgcgcgt acancgcagt ancnmntcta ctcantgtca 60  
 nttttacctc cccacccccc ccnccaacg agagcgcgca gttggagaac anctagntag 120  
 agcactcctc tacgtactgt gcanactgan acatatgatc gtcaaacanc tgntgtaggg 180  
 actatctnca gctaatacag tgatatctnc aatcatatgt gtatcatcac atctgtcgna 240  
 ctatatacgc ctgtaaatgt ctgccgatca gcanggtact gagtattact tatctcagtc 300  
 tagcaanact cgcgacgcgc tcagatacga cacaaccgc atcaatacag ttgagactac 360  
 cgtcgtcagt cgacntaatc attatcgtgc tgacattcgt ctgcgacgta aaaactcact 420  
 cacggatagg cgcacgcacg aagtgcaact caaggatcga acagaatgcc aaccagatat 480



ctcgatacac gacatgcatg tactcgccgc aaactaactg acgagacgaa gatcgtatac 540  
cagatctgat gaagctgcga cggcgaaact ccattgacca gactcgcnac tacaggcggg 600  
cgataatcgg tcgcggggacc attctgtagg gcgcaacaac aacgacgatg cgtntttctca 660  
ctgagtgcga gaagacanac aaatcgtaga tacgtgaggg cgaactacgt ccgtcgacga 720  
gtacatccgc atggagctta atcacctcgc ctagaactaa tccatcg 767

<210> 30741  
<211> 302  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30741

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aattaagaat gagaaatccc atagagaaaa atgtccgatt gattttccgc tctattttac 120  
taaaagatga tttttttatt attatattat cttatacctc tttttgatta ccaatgtgat 180  
tacttgacga ccgaacgggc gtaatttatt ttaaccgaag ttaacggata atacaattca 240  
actttcggtg gatatttttt tattnttaag tcaagcgaga aatgacttaa gctaaatggc 300  
tt 302

<210> 30742  
<211> 376  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30742

gttgcatgg aattgcgaaa gcccactcc atcttttagga tntgtttctg ccatctcana 60  
caaacaaatc agacgtaaca agacaattat agttgctgtt tgaatacctc actcactcaa 120  
gtgtatcaca caattatggt ttttctctaa tgaaacactc ttgcctttta ccaactctaat 180  
tccccttgag ttcttatgca attcaagaga ttatggccac aacagagAAC aattcaccaa 240  
tatgtgtaag gtaaggctag agaaacancg aaaagggttaa ccaagaaaaa ggctaacaat 300  
gttttttaggc acaaatgaac gaaacaaatt tcagacttta tgaattcaag taacaatcct 360  
tcatgcaacc aatata 376

<210> 30743  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30743

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 aattganatt ggagaatgca agattgacaa tgggaatgag aatgtgaaaa ttatgtgcaa 120  
 attgcttcct atgtgaccaa tttataggac ccaattntaa aaaagtttaa tgtaaaaaaa 180  
 atataaaaaa ttaaaacata acatgcatcc aaaattcaca gagcaattgt caattgtatg 240  
 caacgttcta aaattcatag agtaacggtc aattgtggca aattgtcttt cttttctgca 300  
 ttctttctct ttnttcttct tttctttctc ttcttcccc ttccaaaacc cacctcctat 360  
 tgccctatct tctcttctct tctttctt 388

<210> 30744  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30744

ntanagcaca acatcacaga atctaggtgt ccaacacccc tcaattaatg ggtnntctaa 60  
 gtttgtgaag tgaaattgag aatgaggtaa atttgagca aactctcacc tcacacaagt 120  
 ctataacatc aatctaaact tgctcaaact ggatntacac ctaaaattcc accgaatcaa 180  
 aatttgactc ctcaacaccc aattttgccc tagaaatggc tcttggttca ctttggtcat 240  
 ttgtttttcc ctctagcaca gcctaacctt tctcataagt cctaaatggc atttcaagct 300  
 aagattaatt cactctaacc tctacatact accaattcca gaattggcct tccagcccct 360  
 caaaatcact ctntntcact cataacacca catnttactt tctaagccta ggttattcta 420  
 cattcctctt acagtttcc 439

<210> 30745  
 <211> 382  
 <212> DNA  
 <213> Glycine max.

<223> unsure at all n locations  
<400> 30745

agcttggtat gtatatgta caatgttctt aaatntctaa aaagttttta agaacaacct 60  
gtctaggtaa atcttttcag aaagacttct aacacaataa gaaaagaaca gtttttcata 120  
attaccttat acaccagcta atgatagaag ctctttcata ttagtttttt tcaaaagata 180  
tttgtaaatt atgtataaac taacattaac ttatagaaca gtttatctaa ttttttctt 240  
tttattctct ttttttagta gtacttctaa atacatttat ccaaataagac ccttaatatt 300  
aatatatatc aacaatactt acatccaaat tattacttag tcaaggcttg aaattattta 360  
tataaaataa ccagattaat ta 382

<210> 30746  
<211> 645  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30746

aggatacgca ggtgatgcgg acacngctgc gtcgctgctg tacacatctc gggcgggang 60  
antcgtgccc cactcagcat gagagatggt ggangccatg ggaacagccg ccatgtgcac 120  
gatatcactc agcgggtatta cgcaacgcgc cgatacaaac atcgacacga cngtctgta 180  
cggtcgtgtg tctcagcgca aggcggttgg atatgtggac gtgtccatca cttatcaaga 240  
gtgatctctc tgtcggtgca gaactatcag tgtcaggtaa taacacgagc agagtacata 300  
cttggcgtga actagtactg gacggttaata cagcgggcca gacgattgtg cagtgtctat 360  
ggccgcggac tcacatgtcc gcacgaaaac ggatgcgacg gttcgagtcg cgcgcatgct 420  
cctgagcatc agatcagccc acagcatcac tggcatacat cgcgtggagg ctatcgcgcg 480  
acgcttgaca atgtcgagcg ctcacacgcg aggtccgaac aagtacgact accgcgcgct 540  
ctctcaacag cgctccacgg acgcaccgag cagaaatcgt tcgcgagaga tcggccggct 600  
gaagttagtc ggcggactat ctctggcca ttcacgaatg gaacg 645

<210> 30747  
<211> 311  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30747

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tttccgccat caccactcgg gaaccgtcgg ggcttggaag gggttaatgc gtcggtgggcg 120  
gaaatatgaa tgcggcgctcg ttttaaggtag ttcgagtttg gcgcacctgc agtgtgtgaa 180  
tgtacatgaa ctgcttggtt ttttgtttac gtcttcggag cagagaaaca actccaaaag 240  
tcacgatgat cgggcatagg tgggtgcaacg tgtgaccggg cccaaattgt tgtgccgcaa 300  
cacctgcgtt g 311

<210> 30748  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30748

taatgaaata naatagaaca gaagtcataa aaacaaacat ccatgatctc attaattctt 60  
ctnccccatg aaatcctcac ataaatatca ttctgtacat ctcaattaca aagggttggt 120  
cggagaataa taaaactaag atcaaaccga taaggcatca ctaattacat gtgttggaac 180  
aatagagttc tcacacgcac tcaactgtcac tctatgtgag agaataacag aagatgatga 240  
ccaaattgat tgagagaaaa tagaggggac ttaaatttg aaaaaaaact tctgcattct 300  
catgcacact cttgcacact ctctgtttca ttgatgatca ttagtatttt tatccacact 360  
gcatatgtag ctattat 377

<210> 30749  
<211> 388  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30749

cggaaggatc anagcgggtc tgannagagg caaatttaat catcccactt ggacgaatga 60  
gaaaactggg gcaaatggag agggtgagaa taaggagaa gcccatgtta tgactgccat 120  
tcctgtacgg ccaagtttcc catcaaccga acaatgtcat tactcaacca ataacaaacc 180

ttctccttac ctactgccat tntatccaca aaggccatcc ctaaaatcaa ccacaaagcc 240  
 tacctaccgc acttocaatg acaaacacca ccttttagcac aaaccaaaaa caccaaccaa 300  
 gaagtgaatt ttgcagcgag aaagcctgta gaattcaccc caattccagt gtcctatgct 360  
 gacttgctcc cacatctact tgataatt 388

<210> 30750  
 <211> 442  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30750

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 gtaactttta tgaatgagaa acttgtgaga tacacttcaa agttccactt ctctcccttt 120  
 cttccttcaa ttttccatgc cactttctcc ctctctcatt ctctctctct tagaggtgaa 180  
 gcttctcctt ccattgctta ttctctagtg gatgacacat cctctctcct cttctccttt 240  
 atcttccgct gaaactccat gcgtgaaaat cactattgaa ggaccttatt gaagctcaaa 300  
 gatccagctt ccatagaagc ttctcaagag agcttncatg aagtggatc agatgacaag 360  
 agtttcaagt agtgctcct taaacctcca tttaatttca actttacctt ctctacatt 420  
 ggtggttctt cattatctcc at 442

<210> 30751  
 <211> 360  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30751

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 actaaaatta attctccatt aactaaatat taattaattt atagatatca tatcatctat 120  
 gagagaaatt atactaaaga ggctcttatc ctcttttggg ggggttattt gctctatcta 180  
 gctcttggtc tctatatctt tgcaaatacc ttctcaatgg ctctgcatag tcgtcaaaac 240  
 caagcgaccc caaggcccag catatgtcat ccccggtcac tgtcttactc ctttccctcc 300  
 tgcacttctc cgacgcctcg ctgggttacia agcttatgaa ctccgacacg cactcttgca 360

<210> 30752  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30752

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 aanatgaata attactttct ttacttcct ttattatttc tgtcacttga ttccataatt 120  
 atgcatgtta attgataggg acttgggtat taaaggggtgc ccaagtccca catagagtag 180  
 tatttaagtg cttgggttctc ccccttaac aactagcttt taaaggtggg ttcaccaagt 240  
 gcttgggtgc ttacattaat aatcctttca ccttttactc cctccattcc aaattgattg 300  
 atgtttaggg attaaataat ccaatatatt actattcttt caagtatcaa atccaatgag 360  
 atataaaaca tctatccttt atgcctctat aata 394

<210> 30753  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30753

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 aatgacatan attattagta acacttacca ctgcatgtct caactcgtca acatcagacc 120  
 ttacagatgt taatgggtact gctgggtccc ggacctgagg gatatctgtc tctgggacct 180  
 gagggaaaca ctctggatgc gtagcataac catctggcan aggatctgat ggctgggtccg 240  
 atgtcatgaa tggatgcgaa atgcggaaga actagtccat gtagtcgttg gcacactgna 300  
 cctgcacaac gcacatctca cctgctgcaa tcatatgggtc cgaatagtgc atcccacctg 360  
 tgtgtatatc atcanacgac acccatgaat cgat 394

<210> 30754  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30754

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catcatgata aacattatac aaaagccatt cttgtggttg ctactagttt gtttcactac 120  
atgcatgtat tttgtattgt ttttaacactt atggttagatt gtttcattat ttgtttattc 180  
tgaagttgga tttatattgc cattcattga gaatatatat tttatttttaaaaataaatg 240  
gtacaaaatg attgacaact gatacaaaat agaaatacat ttctttgtgc ttttgtgatc 300  
aacaanaca tgtttccatg taaaggcatt tttgtaaaaa atacctanag cataacggta 360  
tactcggcaa agagaggagg tgtttcaaca attntgtgtc ttgggttttc tttttt 416

<210> 30755  
<211> 364  
<212> DNA  
<213> Glycine max

<400> 30755

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aaaggtacgt tetaagcttt attgatgatt attcacgtaa agcttggatc tactttttgc 120  
atgaaaaatc tgaacaaaat actgtgtaca aaagcttcaa agcctgtgtt gaaaaggaag 180  
ctggtatcta aattgtttgt ctaagataag atagagggtgg tgaattcacc tctaaagagt 240  
gtacagaatt atgcactaat caatgtatct ctaggcaatt gacgggtgcc tacacccac 300  
aacagaaagg agtcgccgaa cgcacacacc gaactatcat gaatgttgta cgagctgtat 360  
taca 364

<210> 30756  
<211> 475  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30756

tgaacgtgat gaccntgca aactgaacca taacgccgcc gggtgaaatc aaacctgtag 60  
agatttgaca aagctgtatg caacgggaac aattttgttc ctaatgaaat ctctctaacc 120  
aagcccaaga tagaggccta tctaagattc tactcatgaa tcacagcgct gatgctgaca 180  
agattatttg gcatgagggt gtctatctct aaactgggtg ggatcagtgc actatactct 240

cacttcaa at aatgactgat tgtccatcga ctgcggagac cttattgaac cacctgagat 300  
 tgcgacatgc tggattgacc cggaagagtc aatgcggtcc cagattatcc tfgctatgta 360  
 ttcactactc tatgagatgc gcccttgctc aaaaattggt aaaccttatt agagggaaca 420  
 accgagaacc tctctgtgaa cgagaatata tttcttaagg gccggaagg tttct 475

<210> 30757  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30757

tgctntatat gattatgac atgtaacaaa tcaaagaaac caaccttgat gcatgcattt 60  
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 agatacaaaa tgcccaaggc atttgtcggg gaattcgagg ggagtaaaca ccagacaaat 180  
 ttacaccaat gagccatgag caaccacata aggaattta acaccacact ttaacccaaa 240  
 accttaaggc tcaagtttat gggctcttctc cttacttata tgggtgctcaa cttttcaact 300  
 tccatcctat gtgtgctcaa cttttatggg agcaaaagaa gaagctccat gctttgtcat 360  
 ccagtcaaca cagtcaatgg ggattcatct tcata 395

<210> 30758  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30758

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 cagtttaaga tctcttatag ctgtcagaag gtctcttaat gagctcattt catactgtgt 120  
 gcaagaagag gatagactga agcacgaaag gactaaaagt gctcatgtag taagtacttc 180  
 taataaccag ggccaaagag aaaggactga cgagcccaag aatgaaacta ccaatgggtcc 240  
 aacacaaaag aaacaaaatc aatgtgacaa ctgggtcttt ttagtagcg ctgacattgt 300  
 aagaagaaat gtccaaatat cattc 325

<210> 30759



<211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30759

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 acctgaaatt tgaagtccca caacgtagag gtgcgcttca cgactccgaa aatggcttcc 180  
 ttttgcgatt tggagcagat atggtgagta aagtttgag ctttgatgga ggcttcagga 240  
 gaggaagaaa gggagaaaaa gcaacgtgag ggagagggaa tagcttctga acttttggt 300  
 gagtgaagag agatgaacgt ggcttttagt ataataaggc ttccttntt tatttttta 360  
 caagggtatg ccacatgtct ccttttgagt 390

<210> 30760  
 <211> 495  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30760

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 aatcctgctg cggagattat gactctcgcg tacatatgag aagtcaaact cacgggtttt 180  
 ttatatgtgt ctggcgacag actcaatgca tatgtccaac agagctaagg tctccattg 240  
 gatggggaac aatcaaggct aacacgagct ctgtttatgc gtgttttact cggtgcgaa 300  
 actactgacc ggggacttga ttcttgcatg gaccactgtt aactgacca ggcttagtag 360  
 ctgctctgag ggcagatttg aaggcggcta agtttaagta ctaatgaagc gcttatgtaa 420  
 ccccgcgca taaaatttc tctggcgctc ggggtgggta taccgattaa cgggtttggc 480  
 accatggaca tgcac 495

<210> 30761  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 30761

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cttttgtttt ctgaaatcta cctcattaaa taaacaaaga gatcttggtt catctgttct 120  
tgcagttcca cctttttctca tatcattttg catgtttttg tttctttggt cttgcttggt 180  
atagatatga gggtegattc tttgaggatc ctaacaacga gggtttgaca atcgattntg 240  
atagagatat aagccaaacg ataaacgagg aagaggaaga ggacgtcctg tcaccagagt 300  
tggagagggtt ggtcgctcac gatgaaacgt gaatg 335

<210> 30762  
<211> 325  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30762

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tgcatttctc tctctgtcga atntgctgag gaaaattatc ttcgtgaaga aaattcaagc 120  
cgaggcgctt tcgtaacgtt tccgtgagta attacgcgaa gattctcgac cgttcttcaa 180  
ggtecatcgc tcgttcttcg ttttcttcag tcttcaacgg gtaagtacct ccaaccagct 240  
tttcatttca ttctatgtac ccgtgggtgt gcacattctg tttcatgtat tagtattccc 300  
gttctcattt gctttatata ccccc 325

<210> 30763  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 30763

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tctccccctt tggcatcaac ataaagccaa agtgtgtata gagacataaa atcatacaca 120  
aactcataat catccaagca ttttaattcca tacaacaagc aaggaggaca ataattcata 180  
cataaactaa gcaaggaaga taataattca tccattaact ataataaagc gtcaaataat 240  
tagaaagtca tccaagataa ccgaaataaa aagactaatt tagagagtaa tataactaata 300

agtgtatcaa atatgtcata agacatcaac acatataaca aatcacttgt ctaagtcact 360

agcatctaga agttctaatt ctcttctaa 389

<210> 30764  
<211> 327  
<212> DNA  
<213> Glycine max

<400> 30764

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cttgctctc atcggagata agatgaaagc aaacatagga cactgatctc gtccgtcctg 120  
ccgttccgc gatgacgact cacggctcta ttccttcggt tttcttctgc atacaacaaa 180  
atacgaacta caacgagaac aacgactatt atgtacatat acacatatac acatatccgg 240  
cgaaggaacc gaaccagaaa acaccagaat tacgggtttc ccagtcacca gaagcttcgc 300  
gcttgacaat ggaggacaca tgaatag 327

<210> 30765  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30765

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caaaaagccc aagagaatga gttcaagatt gagtcaagaa cacttcaaga atcatgagaa 120  
atttgatttc aagattcaag aatcaagttt caagaatcaa gaatcaagaa taatcaagtt 180  
gaagattcaa gaatcaagaa aagactcaat caagataagt actaaatatt ttttcataa 240  
cattgagtag cacatgaagt nttcacataa gcttttacca aagagttttt actgtctggt 300  
aatcgattac cagtntactg taatcgatta ccagtagcan aagttgtnt caaaagcttt 360  
cagattgaat ttacaac 377

<210> 30766  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 30766

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ttatatctct aaagaattct gtcctaacaa aaccaaagac agagtcttag caagtgtagt 120  
tctcatgagt caaagtgcc aaggttagcaa gtttatttac acatgagttt tcctctctat 180  
aaacatgtga gtaacaaaaa actatatattt tacaaaaaan aataaacatt ttcccattta 240  
ctatggagac attaaggaac caacaaagga ttgctgaaag cctgaatgac caatgaagag 300  
tcacattcaa tccacaaatt attccagcct ttgcatttca ctacttctaa ggtgatgcct 360  
acaccttagc aaaaaaattt gtttaacccc tata 394

<210> 30767

<211> 346

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30767

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gaactttgag ttgtgtctca caagactctc attcatcana gttacaacta gtgttacaca 120  
tgcttctatt tatagactan gtagcttctc tgacaagctn tcttgagaaa acttccttga 180  
gaagcttctt tgagaaaact tccttgagaa gctagagctt agctacacac acccctctta 240  
taactaagct cacctccttg agaagcttcc ttaagaagat tcctaaacaa gttagagctt 300  
agctacacat acctctctaa tagctaagct cacctncttg agatga 346

<210> 30768

<211> 467

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30768

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tgctataaga gtagtgtccc actggtaaaa ttaactttcc aaatggttgc cttcgcatga 120  
atggccacga ggaagcttgc ctcaaagagg tccacgaaag acaaggcggc cgaatgaact 180  
cattccgctc cggagtacga cagtcaccgc tttaggagcg ctgtacacca gcaactgctt 240

caagccatca aaggatgggt cgttctccag gagcgacgcg tccagctcaa ggacgacgaa 300  
 tatactgatt ttcaggagga aataaggcgc ccgcgggtggg catcactggg tactcctatc 360  
 gccaaagtta tacagatata gtcctttgag tttatgcaa tgccttgccc acagaaggcg 420  
 tgcgtgacat gatatcctgc gttacgggtc agtggatccc gttcaag 467

<210> 30769  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30769

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 ttcttcattt cgggcccatt ttgtttctcg ctctaacgt tcaactgtgg tcatgttgat 180  
 atccttcaat tcatcacact cttttttgac cctagtgact ttcgtcttca gttctcttt 240  
 caccactctt gtctttttga gttgtacttt caaagcttgc acttcttcac tttccttagg 300  
 aatttcagcc tttntccac ttagacattn tagctntggg agccaagtca tcccttgctg 360  
 tctagacttc aaccacttgt gata 384

<210> 30770  
 <211> 557  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30770

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 atgcgtatct tgaaccatat atttgacta ctccgcgga tctattgaac tattgaatag 180  
 aattcagtgc tcggctgctg aatcactcga taattcggcg taaagaacgc cgcgtgctcg 240  
 ttatatattc agatgtaaga ctgaactggc cagagtgttg aagacttctc ggtcgtcctc 300  
 gcgcacgcac atgcgggac tcataaatgc tgggttgaga tctctgcac ttattaaaat 360  
 atgtctacgt cgagcatgcc taatatctcg tagccaatag caggtgaaa agacatgcgg 420

cgctcagagg acgcgcacat agtgagcgtc tattctggta gtatattata cgtgctgcat 480  
 atcggcacat aaatgtaata gagaccagtg gcgcagtcgg accggcacia gtactcggca 540  
 tgatttggcg tcaaacg 557

<210> 30771  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<400> 30771

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 tagccgcttg ctcaaggctc aaaaggaact tgactcaacg tttatgcgag atagagacca 120  
 gcatgttagc tatcatcacc aagtaccaag aagaactaag tctagccacg gccacaagc 180  
 atatggtggc ggacgagtat gccaagtct acgcggaaaa agaggctaga ggaagggtaga 240  
 tcgactcggt acaccaagag gaaacatgt ggatggaccg atttgctctt accttgaacg 300  
 ggagtcaaga acttccccga 320

<210> 30772  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30772

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 gcccacatt atttccatga cacanatgca aaaatgatga tttggaaatt ntatgcaaaa 120  
 ctggtcatgc atgcacctat gcggacactc aagtgtcaaa tttttatggt catgtgatgc 180  
 tagggctcaa gattcatttc ctctatttta gatcaacca atgtttccaa aatatgttct 240  
 tttatcaatt tgtgcattca tccgagtcca ttttgggtac tcgggagaat nttcacagca 300  
 ttcacccttc agtgtgtcac acattttttt ttcaacaact agctatgatc 350

<210> 30773  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 30773

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gaccatcaaa cctgtccata atctttgaaa gaagagatga atcttctcct tcatgtcctt 180  
cttcaccaac atttctagca ccttcttca cccaagagcc atcatgctcc ttacataac 240  
caaaggatgc tatgactgaa gtgcctataa ggaatgatct cttgattgga acacaagggt 300  
cagaatcaag agggatattg aagtgttgaa ggaaaagggt aacaagatga ggataaggca 360  
atgggtcatt caatcgcaat gccttatgca tgcgatatct aac 403

<210> 30774

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30774

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atgtacaaca tcggttatca atacaaaacc gatgttaact aaatgatgtt aacattaaca 120  
tcggttttct acaacaaacc gatgttaacc tatcttatgt taacatcggt tnttctaana 180  
atcgatgtta acatactgac tttaacatcg gttattcaaa aaccgatgtt accagtttca 240  
tgtaacatc ggtttttaaa caactgatgt taacataagc taattaacat cggttttcta 300  
aaaaaccgat gttaacaaat tcacattaat tacaattatg ccaccatgtt aacgttaaca 360  
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<210> 30775

<211> 314

<212> DNA

<213> Glycine max

<400> 30775

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gttatactca aggtttgcat atttgagtgt cgttggagat ctttcttacc ttgcttattt 120  
tatcaggggc ttcgtccaga aagatgggtgc taccatctgc attcatggca cagaggataa 180  
agtactgggg ttgaaagcca aatatgagga cgttgcatgg ggattttaga gcactgagat 240

cagagagaac tttgattctt tctcagtcag ggcggggcga tgtatggagt atttataggc 300  
tgatctgagg attc 314

<210> 30776  
<211> 324  
<212> DNA  
<213> Glycine max

<400> 30776  
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ttcttgagac ctatatgtcg gcaattgccca gctgagaaac acacgctcac acacattaaa 120  
acatctactc cctcccatat accaaccagc ttatgtgagc catcattaac ttactttatg 180  
atgattatca ttataaatac ataaatatta taaaacagag aaaactgcct ggataccagt 240  
tcttcttgat tcttgagagt ggttggtgat ataggctagc aacaactctt ggaaaatgca 300  
tggcattctt catagagaga caat 324

<210> 30777  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30777  
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gtaaaaaact ccgatttaac aatacccact gcatgtaaaag ggtggtgaag ttggcaatcc 120  
tatcttttat caatgatngc aaggatatcc ttatacttcc cttcattgnt attgaaagct 180  
ctttgaattg attctttggc ctatccattg cttcataaat gaaaccatt gcaggttntt 240  
ttttcattat ccaccaacct caacacactt acaagaggcc ccatagcctt taaagcataa 300  
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ctttagctgc cttagacttc aaccattcat ctga 394

<210> 30778  
<211> 435  
<212> DNA  
<213> Glycine max



<400> 30778

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cgtggtaatg tttttggaat tgctgagcac tctccaatg ttaatcattt tcgtactctt 360  
ttctaaacac tatgtgattt ttatatgtat cactacttcc tatattatac agtttttata 420  
ttgatacacc atgca 435

<210> 30779

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30779

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aaatntagag caaactcatg cacatacttc cttatgaaca ttcactcgca caagatattc 180  
ttctatctaa gaaaaatgca cccatgcaca atcaaggcac cttcattacc tagattatnt 240  
atatgtactt ncaaggtgta tntgctacct acatcacatg cacttncttg gctaaatnta 300  
catacatgta tactcaaagc attttggcta ccanaaattg cacacgtgca cattctggta 360  
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<210> 30780

<211> 321

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30780

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ataaaatcca ataaacttat atttcgattc taacaaacta acatttaca ttttaaaaaa 180  
taggttctaa ccgcacaaat ggaaaagttg ttcaattcat ggcattctct tatctaaact 240  
caagtttttg ccgtcattaa cctgaggcac aacttgatta ggactatgaa ctgtgaaaat 300  
gaatccaccc aattacttat a 321

<210> 30781  
<211> 401  
<212> DNA  
<213> Glycine max

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tccttcaatt tcgtgctccc ccctctctct ttctctccct ctttcttttc ctccattgaa 180  
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aagccccaca agtaagcttc catcataagt gcactgacct t 401

<210> 30782  
<211> 203  
<212> DNA  
<213> Glycine max

<400> 30782  
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gaccgatcgg tctgattttt tta 203

<210> 30783  
<211> 374  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30783

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 nttgctgtct gtaaaacgaa aagcctgata gcatgcagag actaacgtcg tcttctgcgc 180  
 ccatcgtaaa tcgcggccga caagcccgtt gacacgcaga gatttacgtc attttccgcg 240  
 ctcacaagat ctgtcatact gacattngag tcatgctgac ggacggaaat acccaagtgg 300  
 atatccgtat aaacattctt tnttgctgtc tgtaagacga aatgcctgat agcacgcaga 360  
 gactaacatc gtct 374

<210> 30784  
 <211> 233  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30784

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 tggcgccggc ggtgggcacc actggttact tccatggcca agtttgatcc agaaatagtc 180  
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<210> 30785  
 <211> 591  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30785

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 ananaggcna aancacacgg gaacccgcgg aaacgacaca gagcgcacgg aggcaagcgt 180  
 tgctgancga cgaaggaaca ccgccacaaa gggacgaacn gcagcaacaa gacaagaccc 240  
 accgcgaaan ccacaacaga acgacacacg gggccaaacc aggacacgga cgaacgaaga 300  
 anganagcgc cggagaacgg agacggcgga agcgacanaa cagacgcaca cagacaccgg 360  
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accgaaaggg acacgacaaa acgaagaaga agcgaaggca acaacaagca ccggaacaa 480  
acgacgagag agacaagacg ccccgaggcg gagcggaacg caggcaaagc aaggcgagca 540  
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<210>	30786
<211>	223
<212>	DNA
<213>	Glycine max

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actttttttg aaagtatgac cattgatatc tcgagacctt ggtagtcaat atcaagcgta    120
tttatgtatt atgccccga atcgcttttc tgtgacatgt atgaccattt gtattctcga    180
aagcatcgat ggtcattatg agcctcttga gcattatgcc cat                        223

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<223>      unsure at all n locations
<400>      30787
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<210>	30788
<211>	370
<212>	DNA
<213>	Glycine max

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attgtttaca aatgttggtt gcttttgac ttttgccgtt atgcttatat tatattttgg 120  
ctctttctgt ccctttagtt gaaatatcat gacactggaa gagagaaaga atacttgcca 180

caagttgggc agtgggaatat gatgaacaac gtcagctaag aatgaacaaa taatgttttag 240  
 atgtaattat tttattgaaa gataagaaaa gggaaaatta cttgtttcca acttactcta 300  
 attctgggaa atctaatagca gaaagtataa atggaagtac tgtaagatat tgggcatgta 360  
 tcaacttctc 370

<210> 30789  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30789

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 catttagcgt caatttcaag aagccccaat caactttatc atagactttc tgcaaagtca 120  
 attnttagcc taagattccc ttttttatta tgcattgtgat gggcaatctc ctgagctatt 180  
 atagcattat cagatggatc tctattagga atataaatgc tttgcaaagg gccaataaga 240  
 ctatcaaaat gaggttgaat gcgattaaca agcacttcag agataatttt gagatcgaca 300  
 ttgcataact gatgggccta aactctttta aggaagaagg gcaatccact ttggggatag 360  
 ttacaataag agtttcaacc aaacttggat tgatggagcc taaag 405

<210> 30790  
 <211> 453  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30790

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 ggtgcgagtt gtggcaaatt ttaatttatg ggttaaagtt agcttgagga agggattatc 120  
 aaaacatcaa gatataatca tattccctta cggcaattaa tctcttgttt atcaagagag 180  
 tttagctcaa ttagttgaat aaaatgatgt gttgttgtga atccttagta cctatcgttt 240  
 gattgctaca aattaaataa acaaactctct cgtctaaagg tttctgttgt ggtgatccat 300  
 gtgcgagttt ggtcaaagct atttatgaca gccatcggag taaaggccac atttactggg 360  
 ttcattgtgct gatggaatcc catcagggtg tagatcgatc ttatggcaaa tcatgggtta 420

aacttttagag tcttcataatc atggtgccta tat

453

<210> 30791  
<211> 376  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30791

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agctggcact tagtgagtgt ccatacattt cctttnttaa ccatttgcac tgatcattac 120  
tgagctatat gttggatcca ttatcatact atattataat ttcgccaagc ttgatgatgg 180  
ggataaaacc catttgagca ttaaaatagc tgacacttag tgagttccca tacatttcct 240  
ttttaccatt ntgcattgat cattattgag gtatatgtta gacacgtaca ttatcataat 300  
ataataataa tcaagaaaaa caatagacat catgtattga aatacctcat gatcaaatnt 360  
anatggaact tacact 376

<210> 30792  
<211> 283  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30792

ataatatagg atgattatgg atccaacata taccttagtc atgatcaatg cagcatggta 60  
acaaaggaaa tgtatggaaa ctactangt gccagctatt cttgtgctca catggggttc 120  
tgcctcatca ttaagcttag cctagtccaa atcaaatac ttgggggttga gatctttata 180  
ccacaacaca ttattggcct tgatgtccct atgaacaatc ttcattgttg actcttcacg 240  
aaagtagcca aacctatagc gataccaaca cgaaatctat gct 283

<210> 30793  
<211> 375  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30793

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ccaagcccct accttcgagg ggcaactccc tccttatgcc gattatcccc tgcaagaaga 120  
 cgatgaagaa gatgcccgtc taggcccctc actgcccctc aaggatccgg cccccatga 180  
 attgccccaa ccaaacatag tccgccatgt cccatctcca cccgcacccg ttaaagaatc 240  
 tgttcctttt gcaaaagata gggaaagatt gatttacttg aagagagggt gagggcggta 300  
 gaaggcctcg acaactaccc gttctcggat ntggcggatc tgtgtctggt acctgacatc 360  
 gtcacccctc ccaag 375

<210> 30794  
 <211> 810  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30794

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 ctaatcnant cctactanc nanccncaga gagcgngat tggacgccat taggtagana 120  
 ngccattgat aganacgtac aaccnaccga cgatcgacag cantaactat aaaacgatgc 180  
 gatcgagacg tcaactacgta tatgtgtcac acaacgcata tcaactacca taagaacgca 240  
 ganagcgacg cactatatga gacagcgagc ttatgaatat catcagcnga gcagtacgca 300  
 ctcaactnct gacgcanctc nnatgtagac ggcatgatat acatcgacgc acatgaatga 360  
 gatacagaca cgcatgaacg cacacgagaa gcggagnang atgatacgaa cacagccgac 420  
 tacaactgcg aggctgttag gcacatacga cagcatacac tcgacgacgt agtctgcaga 480  
 aacgagacag agagaagata cacgaagata gtcaacttaa cacagcatag gacaatacca 540  
 acagatcgag catgaaaata acggctggat gcacaacgga gctgacgaca gcgccaacag 600  
 acgactgtga tgcacgagac gtacaaacat caggacgtca ctgcgatca cacctcacgc 660  
 agagtaacaa ccctgccaca cgagtgcaga gaacgaacac gagcagacga ccgacgagca 720  
 ttgtgtctta gggagatcgc acaacgagga cacactgata cgacatagac ggagtacaca 780  
 aactgatctc actagacaca gccaacggcc 810

<210> 30795  
 <211> 326  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30795

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atacaaagct tcacactaaa aaagaaacat ctcaactacg ttgacaaccc tcctcctagt 120  
gatcacaagc aaaggcgtac aattttattca aataaaaaaga agaaatagat gaccaacact 180  
acgaaaagaa gtcttgtatg atgtctatgt taagatgggt atcgaaaagc tatectcggt 240  
taagtagtgg tggcattttc gtaaacaatt ataacttttg aaagacggtc attgcanaac 300  
cgtcttttaa acaacttttc aaagat 326

<210> 30796

<211> 480

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30796

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tgtccagatg gagaggggtt tcagactggt gcccgcatac gtttgacggt ttagatctgg 120  
tcacaagaag tgtggactaa cctacttcca cgatactttg gattaatcag aaactatatc 180  
acgagctact ggcaacacac ataattgggg ggcagtaggt tgcgacacag caccatatct 240  
gattactggt gcattggaca cagcatgac cccacatatg agtctccgac gaaagcttac 300  
acccaacga ctgacctctg cctggatgca caatctatct gcattgacaa tgacaaagga 360  
tggtttctgg ctaatatcgg catttaacac gcgctcaatg tagtcactcg attaaaatgg 420  
gtctcttttc cggaatctaa agggacctca tagctagata acacttccga ataaagatcg 480

<210> 30797

<211> 413

<212> DNA

<213> Glycine max

<400> 30797

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cgcaaccttg tcagcaaaga actcatgagg ttataatgct tcaacttaac tgactcacca 120



tacaagacca tttgctcttg ctgtgcatgc aatctggagc aattgaacac cctgaagcct 180  
 atgctgcaga catcaacaaa agacctgtc tacctcaaca acaaaatctg ccacaacaga 240  
 aaaataatga cctctccagc aatatgaaca tatccaggag gaggaatcca ttcaacctta 300  
 aatggcggag ccgtcacaca accacaacaa caagcacaa cctatttcta aatgctactg 360  
 gacaagaagc catatgtcca tcaccatcca cagcacacaa cacagcacag ccc 413

<210> 30798  
 <211> 238  
 <212> DNA  
 <213> Glycine max

<400> 30798

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 ggtaccact aatcatactt ccaactgttg cacaagttcg agtaaatttc tgtatgctgt 120  
 cggaaccaca tccaaatatt atctggaaac tatatctttg atcaaactgt caaacattca 180  
 taatcttttag ctatcaaata agccattgcc ttccctactg tattgtgtgc attatgac 238

<210> 30799  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 30799

caagctgggt tactatttct gcactaaatt gttgtgtgg taatcaaag cagatgcaat 60  
 gcagtagaag ggggtaaaga caatatatta ctacaattat atgaaattga gtaggtaata 120  
 ctaagaatag aatattagta gcatgaccga gaataaaata gccgttgtgt catataacat 180  
 aacaattgtc tcacatacag ggaaaaaaa tactccaacg ccatcattag ccggttgact 240  
 tattgtgtgc ttttaataaaa tgttgcccat ttcttttaaa tgtggtgatg atgccgatgc 300  
 caacagtgtg tattatcaac cactgcaagt ttcataattg taagttagac tgcaaaaata 360  
 aaattcagtc caattgttct gaagttagc ataccatgga c 401

<210> 30800  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 30800

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tccaccaac acatgttgac cctcctccc aaattgaaat caaattcttc gtataatttc 180  
tctaactctt ttctgcgca gctaacaaaa acctatatct aanatatttt aagaatgtct 240  
gtcactacag gacatacatt agttacttag attacacaaa caattgaata atgagcgttc 300  
taccttcata gtggtttata ttatcctttc tttattttac aacttatatg aagatggctt 360  
tcttgtttct ccataaccac ttcattaagc atttgaacc ataactcttc 410

<210> 30801  
<211> 316  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30801

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tgttcgtgag tggaattatt tgcattccat cttgcaatgg aagaatgagc agattttatg 120  
tatgtgtttg actgttttgg taaaatgtga tagtctctta tggacaccat tcacctattt 180  
gtgetgtaca atatatgagg atctgatgca ccaatttcat atgcaactgc caagtcattt 240  
gaactgttgg ctgcccagag gagcttcata gcttgttcca aagctcctac ttctcaacct 300  
cctccatgag tctgat 316

<210> 30802  
<211> 364  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30802

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gcttccatt atttccatga cacaatgca taaatgatga tctggaaact ttacgcacaa 120  
ctggatcatgc atagcagcct atgcgcgaca ctcacagtgt gaatataatt atggatcatgt 180  
gatgctcggg ctcaagattc gtttctctta ttttaatgcg cccaatgttt ccaagacatg 240

ttcttttatac actttgcgca ttcattccgag tccatancgg gcgtccggtg aaacatcaca 300  
gcattcaccc ttcaagtga tacacgtttt ccataaattg tttatgatca atgaatttgt 360  
ttct 364

<210> 30803  
<211> 397  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30803

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actaggttca ggaagaagta tgatgagctg aaagatatca acctgacct ggttgaagcg 120  
tcagagtggg aaataaaatg ggctgaaag gaagaatgga gcaggaacaa gttctaaggg 180  
gctttgtggg ggcagcagta atgtgaataa gcttagaagg gatgaatcaa ggatggaaa 240  
catggtgtta gaggataagt taaaggcttg tcagaggtcg aagagaagtt tgacagaaca 300  
gctgagcaaa atagaagaga atatgttgat aatcattgat caatataacg agaaggtgaa 360  
cctagctgct agtcatggac atatgctgga aggtatc 397

<210> 30804  
<211> 478  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30804

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aattccacct ttgtacaatt aaaacatcgt ataaatattt tgtaatgtaa ttattgtgta 120  
taattttaaa ttgtgtaaga atttactgcc aacgatttgt cgtatgattt gtgctactaa 180  
gatccattgg anaaaaataa aaatagaatg tggaagaagt tttgaatctc ccaaagtaca 240  
tctgacatgg atacaaactt gagtagacgt tgctttgcta catattgtac tctttcatta 300  
attagaagtt tcatactagc ttccactctc ttcattcttc tccaatgaat gtaagaagaa 360  
taaattatat aatggaacat ttgacattgt tgcttccttc ggtatcggcg atatatatag 420  
atcgattctg aaaacataag tctgtgtatt atcattagca tatatgatcc ttatgttc 478

<210> 30805  
 <211> 337  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30805

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 taaagaagtt aattatgaat tgtcttttga gtaattcatg ttaacgggtgc attgttaatc 120  
 cgaaaagaga gagtgatagt ttaattgagg aatagtcttt gtatcttaat tcaaccctt 180  
 tctttcttaa cgttactgaa gccatttgtc aacatcctat tcttgacaac tcgcttctct 240  
 aagaagacca actctctgct cttgataaat gaagcccat gaacgtctat atttttactt 300  
 gaaaacacag tcatacaatg tcctttctct ttttgaa 337

<210> 30806  
 <211> 480  
 <212> DNA  
 <213> Glycine max  
  
 <400> 30806

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 ctgctcttcc ttcccgcgac gcgtcttcat atgttcgctt gagtgggctt atactctata 120  
 ccatactatc cacgatgact ttggctatat caagctggca tgcttgcat gtcgttgctt 180  
 agacccatat cgggttcata accgaactcc aacataactc cagccatcat tacatgctgg 240  
 attggacagg caatgcttcc ccagagaaatg agttcacgga tgaaattgct gacaccttca 300  
 gagcactgga tagcgggttc taacgacctc tctggcggct acacttaaag catataggat 360  
 gggcaacttc tcaagatgac tccctcgctt gagacaagaa cagatggcac ctcaatacaa 420  
 attaaacttt cgtggagggt gaggaacaa cctcgttgat ggatcatagg cgcccaggag 480

<210> 30807  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30807

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 cagggaactt ttgcctttga tacggcaacc acgttgatag agacatccca aggaaaaggt 120  
 cggttcttcag ctaagccagg catcaatcca atctacggca ggtaatggcc catgactgcg 180  
 gcttggcgca taagaacatc aaggcctaca ggggtgtagta ctgatattct acgcaaccac 240  
 ttcccgttat ggaatccacc tttatgagat gaagcatggt gtatttacat caatctaagt 300  
 ctggataata aggcgggacc atctgctttt aaccaccta gaacacaaag ttgttatagc 360  
 taggtcgtga gagccgaaag ctacttaaac tcaagactca tcc 403

<210> 30808  
 <211> 500  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30808

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 tctcaggcna agctcgaatg atctctgctg attctaagag aagttcacgt tcatagccat 120  
 cggagtctga taagagtatg atgaactatg ggacgtcatt atggtcaccg ctgaagcctt 180  
 ggaacgagaa accacaaagg cctcgaatga atatcactac caatgcaaag ttgtgacggg 240  
 ctctataggg cagctatatt gatctcaacc tccgatgagg tgataggact catcatgggt 300  
 caaaggcatg aacctgaagg acgaactaat agcttgcttc aagtcaaata gagaattgat 360  
 ctcacgataa tacgaaattg aaggattatg tggccatctt catgggtgcaa aataactatt 420  
 ctacacgatt acgactaagt tatagtgatt accccgattt ancaaaagg accaggagag 480  
 ggtcttattc ttgacctaag 500

<210> 30809  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30809

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 aatatatcga taagctcgaa attgaatggt gaacctctga gcaaattcaa acgacaataa 120

ctttttactc ggatgtctga ttgagtcctg tcatatatcg agacattcga aattgaatgt 180  
 tgaagctctg agccaattca aatgacaata acttattact cggatgtctg attgagtcctc 240  
 gtcatatatc gagacgctcg aaattgaatg gtgaacctct gagcgaattc acaccacaaa 300  
 taactttttac tcggatgtct gattgagtcc catattata 339

<210> 30810  
 <211> 546  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30810

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 tctaatttta catnccgagt gacaaagtac tctgtcttnt gaattgcgct caaagcttca 180  
 acattcaatt tcgacgtgtc tcgatatatt acttggaactc aatctgacat gccagataat 240  
 agttattgtc acttgaattg gctcagagct tcaacattcg aattctaacg tctcgatata 300  
 tgaagggact caatcacaca ttcgataaat agttattggc gcttggtatg gtcagaagtt 360  
 aacattcact ttcgaacgcc tcaatatatt actggactct atcagacttc cgagtagatg 420  
 gtattgtcgt tgaattggct cacatgttga aattcacttc gacgcgctga tgagttcggg 480  
 accaacagac tcccacaaca acttttgate gtacagagta gacttccaat tcattgttag 540  
 cgttcg 546

<210> 30811  
 <211> 562  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30811

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 cacaaaagag aaaatgaacc ttgagacctc gaaanccagg tggaacagc agaaccacac 120  
 ggaccgctaa agacgacctg caggcaagca agcaaagatt tcagacgccg cacacggagc 180  
 aggaacagcg ggaaatggac acagaagggc ccgaacagcg tagagagaca gaaagaaaca 240

agcaccceaa gagcgagaga aggaacaac caaaagagcg ggcgaggagc aaccacacaa 300  
 agaaacgcac accgaggaac aaggcaagag agcagaacgc caagacntcc aaagacgaga 360  
 aagacaagag gcaacatcaa gaaacgggaa agggaaccgg cgcacacgat gagaacatga 420  
 aaggcaacgg gagtcgacac aacggaaagg caaacgggtg aatcgacagc aacacaagcg 480  
 ccaacactag aacggaaccc gagcaggagc agcacgacaa ggcaccaagc cgcacgggga 540  
 cggcagcgtg cccaagagca cg 562

<210> 30812  
 <211> 504  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30812

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 ttttactgcc acacacatgt caccacgcct cacagtggca tatactctcc tctcgtcgca 180  
 gacttgggtc acatcatatg ggtgggtgcc caaatggcag attcctggca actaaacgcc 240  
 gtcgatcgac aatgactctg cgactaacct cagcatacta aggacgcgtg taaggcaaag 300  
 atctgcgcta gcagacctct catgcatggc acgcccagc atgtcgggtg catctatcgc 360  
 ttogaataca tcatatacag aggggatcta tgtggttagc tctgagtttg ttctcttagc 420  
 gtgatgatac gtggtggcaa cgcgctcggg tcggatcgga ctcaccacta cagccacaa 480  
 ctgtgctcac atagaggcgg catg 504

<210> 30813  
 <211> 96  
 <212> DNA  
 <213> Glycine max

<400> 30813  
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 caattgtgac ccttctgatt aaatgtcaga tgatta 96

<210> 30814

<211> 514  
 <212> DNA  
 <213> Glycine max

<400> 30814

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 ctcactacta tttgtcaaac ctattattcg aggcgaaacag tatctatctt cccgcaaact 120  
 atgtagtcca tcccctgcat ggaagtgcac ctaaaatact ataatttggg ttgccgctat 180  
 atccaacaat cttcaagggtg ggcttaaggg atagataacc tacatggatt gaaccttgctc 240  
 tgctacacac gaattaagag aatcatcttc ttttgactgt atggatagcg actcctcgta 300  
 ttgctcttct ttccaatatc ttctgtcgcc ctcttaacga tttcatattg ctgtgttaac 360  
 ataatgcctt acttcttata gggattcaaa tacccaagca ctagtgtatg cgtttgatta 420  
 tctttcctct tatacaagaa acaacaacaa aggccatta attgagttgg aaaggatctt 480  
 tcgcatactt tactcctata tggaacatat cgcg 514

<210> 30815  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30815

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 gtcaagggtta agggccgatg acctgaggtt ttggctcata agacttgtag agggccggac 120  
 atgatgtatg taagggatat gtgttcngta accgttcagg gataacggaa tgcccatatt 180  
 atttccatga tacccatgtg gacactcaaa catcangtnt gtagtaatgt gagactaagg 240  
 cttangattc atttttccca tttaaataca cctagtgtnt ccagaagatg tgnnttatca 300  
 attatgcatt catctgagtc t 321

<210> 30816  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<400> 30816

tgaccttgac cctgaacctg aaacgccata actcgcttga gagatacatt attcccaccc 60

60814-30815



cgttttttga gcagaatcct ggaaactccc gatcgatcca aaaatttagg acagtcgact 120  
 attgagggga ttaaagttaa aaccgcaacc cgttgttcca aaattttaaa ttttaagtcc 180  
 aggggcctcg tatcctcccc ggctgagaac ccgccagggg taaaaggaca tggtgagcgc 240  
 caggtttcac cgaggtcgca ttaggggggc cagactagcg cggtgaccgc gggggggccc 300  
 cttaaactcg ggctccacg 319

<210> 30817  
 <211> 357  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30817

agctttgcta gaaaagggtg agtattttct aananaatta tcgaaattta taatgggaag 60  
 agataactta gaggcacttc ttgcccaaca aaagtgcgtt attgaaaagg ctgggttggg 120  
 atacaataac aataagaaac agatagctga caaaatcttt ttcaacgta caaaagcttc 180  
 cagctcacc atcatagtat gctactactg tatgaataag ggacattctt cttttaattg 240  
 ttgattaagt agtttgaat tccaagtggg aaatacaaat gggttcctat gggaactaat 300  
 aaggttgcta accaataagg acccgacata atttngtac atagatctac ctctcta 357

<210> 30818  
 <211> 297  
 <212> DNA  
 <213> Glycine max  
 <400> 30818

aaccgcccag agacaggga acacaccccc ccaggctgac tgaaccacaa ccaccaacgc 60  
 caagcaccac gacgaatgcc agaagcggac cggggaaggc agcacggaaa cacggagaga 120  
 agcacccgac acggcaccga gagacggacg gaaacacagg gcaggaaaca agacgacgaa 180  
 caacacaccg accaaggcga acaaggcaaa ggaaccacgg aggggcccgc acacacccgg 240  
 cgcacgcgcc ccagccgaa aaaacacca aaggcagggc aagacacaca agcgaac 297

<210> 30819  
 <211> 392  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30819

agcntnacat tggttatcaa ttgtctaaca taaacttctt cttttactta ggacttggga 60  
tataacatgt taaagattgc agcaaagcac aacatgggca ggttgatgac atgattntga 120  
aattacaata gaacattatg ccagatattt gatccatgta ccgacccac ctagtgagaa 180  
aaggattggt ttgttaatgt tgtatacaaa ttcaacatac ttcaaata atagtagttg 240  
tagagttcca agccaaaaga taagggtgcat ttaatgcata gtgggaattg gaattttatc 300  
actaaggttt aggtggttta aatgcaaagt gaaagattgc attntactag atgaaactta 360  
tttgaatgga tgcattggaa gttgtattgt tc 392

<210> 30820

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30820

tgctaacca tggaagctcc taatatctcc cacactntnt gagatgggcc attcatggat 60  
ggccttgatt ntctcaaggt ccacttgac ccatttcta ccaactacaa accctaagaa 120  
aactatatta tctacagaaa aagtacactt ctctatattt gcatagaggg tgttttctc 180  
aaagactgaa agaacttgcc tgagatgtcc tgagtgatca tctangctcc tactgtacac 240  
tanaatatca tcaaaataaa caactacaaa tctacctatg aaatccctta agacatgatg 300  
cataagcctc ataaaggtgc ttggtgcatt agtgagccca aaaggcatca ctagccattc 360  
atacaaacca aacttggtct tgaaagcang tatccactta tcaccatttt tcatcc 416

<210> 30821

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30821

agcttgatgt gtgtattcac catctttcat agtagaatac tgggtaatgt gtctaccaca 60  
cgattatcat ctccctttcca tcatttgggg gtgccactgg gctgccagat ccctccacct 120

ttgngtgtat ttctttgaag gattcatgct cctttttgca catgttctat agttgcatct 180  
 tatccagagc catatcagaa ttgtactgat actgcctaac aaaggcaacc gtttggtcct 240  
 tccaagaatg ggctcgggaa ggttccaagt tagtatacca ngtggcagct gccccagtaa 300  
 gactttctta gaagaaatgt atcagcagtt tctcatcttt tgtgtatgcc cctatcttcc 360  
 gacaatacat cttttagatg gttcttcngg caagtagtct cctt 404

<210> 30822  
 <211> 325  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30822

tcaacctaga ggagacggac cattccaagt gttggagaag atcaatgaca atgcctacaa 60  
 gattgacttg cctagtgagt ataatgtaag tgccactttc aatgtgtctg atctatctct 120  
 ntttgatgca gatggagggg cttggattt gaggacaaat ccttttcaag aagcagggag 180  
 tgatgaggac ataaccaagg tcaaggacca tagnaacactt gaagggccca tgaccagagg 240  
 cagacttana caagcccaac acgtcataga gacaaagcta gtcatttgta tagctgccat 300  
 tgatgatgat tgaaggccca agtgg 325

<210> 30823  
 <211> 393  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30823

agcttgtttt ccnctctct tcacatgacc ctctttctc actaagggtg gtgacccttc 60  
 ttcaggctgg gtgattcttc tcacttgaag ggctctatt tatagacca tcttaatgtt 120  
 aaaaggggaa gcaaatctct aatttacaga taatatctta ataaaattta aacaaatcct 180  
 aaagataaga taatatcttt ataaatataa acaataatcc tagagatntg aaattacaaa 240  
 tttgaattgt ttcccaacat cctctaccaa actctgttcc ttgcccctct tggcctgatt 300  
 caaccgctc ttccactttt ttccttctcc tatatgcttg tgtaatggc ctattagtgg 360  
 ctctacattt atggacaagt ttgcttgcta ctt 393

<210> 30824  
 <211> 482  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30824

taagagtnta accatgcgta gatatectat ggtaatatct cattttttta ccatttgaat 60  
 agtgtaaaaa cactacccaa tcgcctaaca aaacaataat actgtctacc acacacacat 120  
 gaaaaattgn gatgttaccg tgtttgtttg acattctttg tcttcctagg agtgtatgta 180  
 ataatatctt tgtagcacac atgagaccga tgttgtttgg taagagaaaa ataagattct 240  
 agtaaattta gagagtttga taagcactgt gctacttcaa caaatataaa gatatgtgaa 300  
 atttggtgaa gggatatctt cctcaaatac ttgtcaatta atataagcat acaaaatana 360  
 attaaatata atataaatca taaaatattc tactaattat aagatcaaca ttggataata 420  
 agagtaagaa cacattatta tttaaacagt tgaaagataa aagtaatatt attaaagaac 480  
 ta 482

<210> 30825  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30825

agcttgtatc taacggtgat tgcaagcgat gcagcataat ctagatctct gacggaagac 60  
 aagttgaacc ttaattggtg aagatagatn ggggaaatat ngaatcatga tttatatata 120  
 cgtaacacgc acacttattt atattcttcc tttctctgca tctccctcta tcataggagt 180  
 gtttaattttt agacacttaa acaatngaaa cacttaanna taatattggc atgtgttttt 240  
 tttttttttt tatctccac ttcatttaca ttacataaac aatcatatat atttcaacat 300  
 ccacttattt tanacatttc atcaataact cttattnttc tctcttatca catcatataa 360  
 tctatcatac atnatnttct tcttcttttt ttccactatc tct 403

<210> 30826  
 <211> 469

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30826

ggattcaact tgggactcct tccgttntgc ttctgacaca gcctgtctcc gctaccatga 60  
caacattcac ctccagaaca ttcttccaaa gaagaatgtg gagctcgccc ccacgatata 120  
cgacgaattc tatgggaagc tctagcggag gcaatggcat agacgaatga gaaacagatt 180  
gatgtggtgt tggatgaagag ttctactcca acttttatga cccggaggac gactctccga 240  
agcagtgtg agtgcgngg aagaccatca aatttgacac tcagacattg aacgatntct 300  
tatggacctc gtaatcattc tggaaggggg agcaactaac tacatattcc cagtacctcc 360  
aaacttatcc tgacctcca cacctctaac cttaacatag gaccggcccg cctaataac 420  
agactcgtga tgaagatgga catggatgtg ggcagtatga tttcctttg 469

<210> 30827  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30827

agcttgagta tagagacttc tcaagctatt tatcttctct ctacagagaga ctctctcatt 60  
ggattgatag gaatgaaggc tctaccctt atttatacta ctctacctcc acaatgaatg 120  
gtggagatta cttgtatcat anggtggaga ttaattctct agaatgttgc acacattcta 180  
tgagtcttta cactcttcta ctcttttcca tatecttcca taaggttcca cacatctcta 240  
gaatattcta gaggtttcca cattcttcca caagcttcta gagagttcta cactactcta 300  
gagttctcta ggacgttcta aaaaattcta tactnttcca gagatgtcta gaattttcta 360  
gaacttctcc aattaagaaa ggattccaac aattgtaatg tate 404

<210> 30828  
<211> 291  
<212> DNA  
<213> Glycine max

<400> 30828

tgagcttagt catgagaggt gtgcgtgtac ctaattctcta gactctcatt gaagatgcct 60

cagagatgct tatcaaggaa ttactctcaa catagcttct caatgagacc gcctaggcta 120  
 tgaataaaag catgtgtagc acttgtgtaa ctttgatgaa tgagagtctt gtgatacaca 180  
 actcatagct cgacttctct cctttggtct tccttcatt actagctccc cctctctct 240  
 atgtctgact tttcttttct ctccatatga acatcctctt caagcttctt a 291

<210> 30829  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 30829

tgcttatctc ttggagtata taactcatta tgataagctg aacagtgtga aatctattca 60  
 aacaagaatt aatgatactt gcattgacat tataaaggtc atttatactg tcactgtatc 120  
 acacatcgtc atatatgata actttgttga cttttgcaat aactcatctt tgaaagttat 180  
 aatgatgatt tctgatttat caacaatgta aaagctttta cactaactgt acatgcctat 240  
 tgagttctta ttaaaaagag cttatagaat attcatcatc tatgagcatt attaagttcc 300  
 atgtaagctc tatcaaagtc ctctaaatc cttcttaca attgaagctt cgaacaaaat 360  
 ggattgagac taacaataat tatct 385

<210> 30830  
 <211> 180  
 <212> DNA  
 <213> Glycine max

<400> 30830

cctgacttac tgacagacac gcgtaaaaat tcgtttccaa aggcgtatag acgacagccc 60  
 ccaaaggcac atcacaatct ataaggagat cgacataccc taccatagat catataacta 120  
 tcagctagct ctttccgatc ctcccagggg gaacacatat tacatgcccc aaactcaacc 180

<210> 30831  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30831

tttcttgctt ctatgcggtg gaggggtcttg gctaccccg aatgaccacc aagtgggtgtg 60  
gcattggaact ccgataagag gcatgggata aatgggttgg ccgattcaa ccatattcaa 120  
tcattgaaga gtagatagcc attatgaacg cgatactgag gtagctaga aggatcatgt 180  
tgaaccttgt cccgtaacgt ctgaatatca aagtcgtgct cgagtgtttg ttggatttgc 240  
cgcagaaagt caaactgatg aactgaaagc acgagtagct ggccggcgag agagtngcat 300  
ccgcacaaca tttgtggcac ctgcgttgta ttgtatggtg taattaagcc tagtaacttg 360  
gaaagatagt agtgctgctc ccgggtctaa atca 394

<210> 30832  
<211> 302  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30832

ctcagctgct cgctacgaga caaaccttag aatttgtgat cagatatttc gcgcttagcg 60  
cacaaccact tacactcgct cagcgagaca tgctctntag agcacgcctt cgtaagctga 120  
gaagcctaag agcctttaat aacactaaga atagaggag ttctttatct tagtatttaa 180  
gccttggtgc ttatgaaggc ctgaacactt cattgttgat gacgtctcta ctgagcactc 240  
ttaatgtaaa actcctaact atctatttaa atgtacttgc tagtcgttca ttggctctat 300  
ct 302

<210> 30833  
<211> 386  
<212> DNA  
<213> Glycine max  
<400> 30833

tttcttggtg atccaatacc ctgatgagga tgtcccatat gttcttaaaa ctggactgat 60  
ccatttgctt ccaaagtttc atggtcttgc aagtgaagac ccacacaagc atctgaaaga 120  
attccatatt gtttgctcca ccatgaaacc accagatgtc caagaggatc acatatttct 180  
gaaggccttt cctcattctt tagaggaggt ggcaaaggac tggctatatt accttgctcc 240  
aaagtccatc acgagttggg atgacctcaa gagagtattc ttataaaaca ttttccttgc 300  
ttccaggacc acgacctctt gaaaagatat tttaggcatt acaaaactca gtggagagag 360

cctatatgaa tattgtgaga gattta

386

<210> 30834  
<211> 297  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30834

tgatactcag ctgcttctcc aaagcacagc cttctggatg attgatctgg aatgtctaag 60  
tgggccagat cgctatttgc accccctatt tactaaatgc accccccttc tattattttc 120  
tttgtaattc tttttccgta acgctacgag actgtgcgaa ttttgttgcg atacttattg 180  
tccttgcgca gggttacgaa tccttacgga ttatgtattt actctttttt agctttcgaa 240  
gaagttactg aaactcacgg attgtgcaan aacacctctt ttcaatttcc cgcacat 297

<210> 30835  
<211> 317  
<212> DNA  
<213> Glycine max  
  
<400> 30835

tttcttattg ttataaagt actggatcta ttggtctagt taacttctta ccaatcatat 60  
ttgttcggct aagattcttc tagatttaac tctgatccat taaatgttga tttttgtgca 120  
caaattagag atgatgttga ttgtttaagg agttctcaa gtaaccaagt taaaatggtt 180  
ctctttggat tgcaatctta gaagtaatgt tacattgggtt ggaatacagt gcttcaaaat 240  
ttatagatag ctttcatttt ttagttaatt gagaatgcga catcctcttg gattcatatt 300  
gggtgttctg tatttgc 317

<210> 30836  
<211> 454  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30836

gcgcttatcg tctctctat ctcacgttgc tatccctttc ttcttgetca tcattgaagc 60  
tccatcaaag ctacaacctt tgacacccat ttctgtcca aaatcgaga aggaagccat 120



tttcggagtc gagaagagca cctctccatt gtgggacctc acatttcacg tttgggtaga 180  
 cttcttctca cataaatttt cgtgggtatt gcgttttggg agatatgatg ggtagttnta 240  
 ctaggtttat gctcatgat agttatttgt gaagaaattt gatgaaagca tgttgaactt 300  
 gtcagtgttg gtatgagtca agcttaccba ttctgttgta gggttnttat gatgatgctc 360  
 gtatgctgaa atggctgatg gaaaaatgat aaagatgaac ggtagaatta acctangggg 420  
 taaaagtga aatgtagtga tatgagtga aaag 454

<210> 30837  
 <211> 246  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30837

tattcatgct atatccaaga tcaaataacc cttgagggaa aaaatgggta ccaattatct 60  
 aaatgacaat atgagtatca aagtccacat tctgtgtgcc ttaatttgta tgtctggggt 120  
 aataattttt caaggagttt tattcttgta aaactatgtc aattcttact gaagatgctg 180  
 aagctctatt attattcaaa gtacaagttc tgctagctaa gctcnaataa catatctaga 240  
 gtctca 246

<210> 30838  
 <211> 364  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30838

agctntattc aactgaaga ggacaaaaga gactttgttg atcaaattga gggtgggtgaa 60  
 ttggaaaatt cagttgcgga ggatattcat gagtcaaata aaaggaaaac tcctttcgaa 120  
 ggtttgtctt ctccatccta ccaaatttga cctgggtgtt cttagaagtt aaaattagca 180  
 atttatattt attntgttat tcaatattct gattggaatt tccaaatgat tttccaatt 240  
 acagtattat tgctgatcc tttcttgaat agttgttgca cactagcttc tttgcctatn 300  
 agaatttatt gatgtcataa acaacatgta ttctangtat gtttgaataa tcttctcogt 360  
 aaac 364

<210> 30839  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<400> 30839

acgcacaccc tgagctgcac cacgtgtggg cgtaaacgcc tccccccccc ccagagcatg 60  
 accatcgaaa accccttaag accgcccgcac agagcgcagc gtaacgagca cactccacga 120  
 ttagactgct gaccaagcac cacgggagca accaagcatc gacacccac caacccgaga 180  
 caataacgac ctaaaaacgc agggacaaaag tcagaaaaaa atggcaaacc cgcgtggaca 240  
 gaaggcgcaa cacctggggg gaagaagagg gtaaacacag ccgagcaacc gacggacaaa 300  
 cgcgacagag aaccgcgaga acagccgagc gattcgcggg cgagacgaag ggagcaagta 360  
 cgcagaggaa accggcgacc aaaggacgaa aacaaggggc gccacacgcg gagctcacta 420  
 aagacaaaag gcgagaacga cggggaaaga aaggggacag acagactcac acaccaacg 479

<210> 30840  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30840

naagcttatg atggtgttca atatttatgg gggngattgt acatcaaaaa aagatgagaa 60  
 aatgaaaac attntttttg taatgaaaaa tgaaaagatt aacaccaaaa agaagaagg 120  
 gttggagaca ccgatattaa tagctgcaaa gaacggtgtg acagaaatgg tagagaaaat 180  
 cattgactcg ttcccagtag ctgttcatga tatggatgcc aagaaaaaaa atatagtgt 240  
 attggcagta gagaacagac aaacttactt atataacttc ttgtcaaca agaaaaatct 300  
 aaaggaaagt aatatattcg gaaaagtgga taacaaggga aacagtgca 349

<210> 30841  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30841

ctagattcat cacttaccac aagcaatata cactgcaagc tcttgtcatc cagctntgtt 60  
 cttttctgat caggtacatg gacatgagtt angcacccaa atactttaaa gtaatctact 120  
 ntaggtttga ttccactcca catctcttct ggagttttat ctttactgt caatgtggga 180  
 ctctgtnga gaacatgaac tgtccatttt gcagcttctg gccaaaaagc ctttaagtact 240  
 tgtttgtcac aaagcatgca ccggaccata ttcataatgg ttcgatttta cacttcgcta 300  
 cgccgttttg ttgtggagtg taagatgtng tgagttgcct gcttatgcca tgaattntac 360  
 aaaatcatta actcatttga ggtgaatcac cccccctatc tgtgcgtaac aacatat 417

<210> 30842  
 <211> 184  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30842

tgcaccaata gataacatct ttngatgagg atnagcactt ncagactgtg ganctccatt 60  
 atntntcata tgactttaac aaattgttaa gtcataatac atttatgtct taaagatgaa 120  
 ttangactcc taattanttt gattagatga aaataaatat aaatggtaaa aagtgtgtct 180  
 aata 184

<210> 30843  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30843

cttctacatt caacctacag tcttctcana tgtttatgta catctttcta gttgcattnt 60  
 caccttatca gaagagactc tgnaaagtta aaatacaact cataatgctt tcaattgaat 120  
 ntgtaacaat caccaggatg gcatgctgat tgcanaggat gagatctttg gtccagtcaa 180  
 tccatattan naatcaagta agaaaacaac tagtgttagt taattacttt gcagagaatg 240  
 gtattatact accatacatg tgttgtgctt tgtgcattaa tttttgtgtt gatgactcca 300  
 gggaccttgg tgaggtagtt catagagcga acaacacacg ttactggctt gcggcaggaa 360  
 gtgtcacaaa gaacatggac actgcaaaca ctttgacgcg ggcactgaga gttggaacag 420

tttggataaa ctgctttgac aca

443

<210> 30844  
<211> 403  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30844

agctngtgat tgttaaatat atatataaaa agaaaaattc cttgaggttt tgcacttgca 60  
cgtttgagaa gaaaactcac tcgaccagga gcttgtggaa aatgccc aaa gacaattgtg 120  
ataatagggg acatctgatg ttagtcactc atgcagactc cttatgattc cttatgaatc 180  
caaagggtggc ctttcttgta caaattcttt cgggatcaac ccatgacatc aagtttttagc 240  
aagatcaact gacccatggc atgactctat gatattaaat caggaaagtt tcacttggtc 300  
acataccaaa gtgtgacaat ccattgccat ctttcaatgg ggtgcatgat cgatcccaaa 360  
gccatatatt ttcttgttgt gcagaaataa tcaaagcttt aaa 403

<210> 30845  
<211> 412  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30845

tgagatgagg aagtgttgaa gagtgaact tcctgctntt attgttgacc acagagtgg 60  
acctggagat atgtcgcggg ggtcaggaga ccttgnngac gtcagggtggn gtgctattgc 120  
ccanaaccaa gcttgaccaa tcccaacca acccgggcat agtcggtcag tgagaacctg 180  
tgatgtacct aagcaggcga gctcctngca gtcaacagat aanagganta caagaccaca 240  
aagcaaggag gcttgtggtg gctggccagc tgtgaatttt gtgtaatatg tggattgtgg 300  
tctctgggta atcgatacca naggtgagta atcgattaca aggcttanaa tngaggacag 360  
gaggctaaga tggctctctg taatcgatta ccaaggggtg taatcgatta cc 412

<210> 30846  
<211> 366  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30846

agcttctttg agaaatcttc tntgagaagc tagagcttag ctacacacac ncctctaata 60  
actaagctca cctccttgag aaagctcctt gagaagattc ctaaagaagc tagagcttag 120  
gtacacacac ccctataat agctaagctc acccccatgc caaaattcat gaaaatataa 180  
aaaaaaaagc tctattacaa agactactca aaatttcctg aaatacaagg gctaaaccct 240  
atactacttg aatggccaaa atacaaggcc canaagagga aaaaccaatt cttacattta 300  
caaagaagaa tggatccaac cttgacccat gggctaaaaa atctacccta gggctcatgag 360  
aacctt 366

<210> 30847  
<211> 488  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30847

ntgaattcca gtccaaactc acttcacaaa atctaatttc aggtttatat aggtggcctt 60  
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cttagcgcgc ctttctcgct taatggatga actgaagcag tgcgcttaga gagatgaagc 180  
agtgcgctta gcgaacctgt acaactcatc ttcttctgga ttcttcctcg cgcttagccc 240  
aggagtgttg cgcttagcgg atgctcgcta agccaacaga ttggcttagc aagaaggtga 300  
aaacaacctt ttccaaagc tntcctaatt aacctanaat tgagagaaaa tgattattaa 360  
acacaaaana tgaaaatact aagtatttat tacctatact taacataaaa tacttataac 420  
attacaaaat aaccataaat taagagagtn tgatgcaatn tatancaagt ttatacacia 480  
aagttagt 488

<210> 30848  
<211> 370  
<212> DNA  
<213> Glycine max

<400> 30848

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gtaataaact ctttaaacca gaaaatccca tgacacaacc aagcagccgt ttgtgggaga 120  
 tgagggtttgt ctcgttgata tggtccttgc ggccatttgc acatgaataa ataaaaccac 180  
 agcgctgcga acccttcaca aacggcggca acagagtgat ttgcggtgcc aattttgggg 240  
 tgttagggtg gagctgtgcc ttttggtgtg ggagggtggc ggtagggtgg gtgttatgaa 300  
 ttttcaataa atcttataaa atatcaaag agcaccataa cacattacat tacgttagat 360  
 catcaagaga 370

<210> 30849  
 <211> 76  
 <212> DNA  
 <213> Glycine max

<400> 30849

tgaactcctt attcctttga gcataagcgg caagcttcat tcaatgtaaa gaggggcttt 60  
 ccactccttg aaccct 76

<210> 30850  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30850

tttctnattt ttctctcct tgatnctggc catctcttag acttcgtcct ttatctctta 60  
 ttccaccctc atgttttctt gttctgcgat tcttgaaaaa tacctcattg ttgatggttc 120  
 cncgactttg acgngatca tgatgtctat gccatatgta aggcggaaag tagtttcatt 180  
 ggttggtgtc taaggatgaat aatgataagc ccaaagtatg ctanggagtt cctccttcca 240  
 taaacccta gacttgtaa gtcttggtgc cangataacc ttgtttgcta cctctgcctg 300  
 attgttagtc tgggggtgtc aacagaagtc acgaagtgtc tgatcaccta cctcatcaag 360  
 aattcttcat aagcttaagc ttgaattga g 391

<210> 30851  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 30851

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agatttactg acgaacgtcg aagaacggtc aaaaaccttc gcgaaatcac ttacggaaac 120  
gtttcngatg cgcctcggtc cgaattctct tcacggaaac aattttacta agcacattcg 180  
atagagagag aagtgcctaa ggggctgaac ccctattcta catcacttgt cccctagtc 240  
atagaaaatt gtgggagaag cttgccaccc agctctccct ggcgagcagg gttgtttcct 300  
ccataagcaa cagccttctg gaggaatct 329

<210> 30852  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30852

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tgcaataaga gtacaagacc atgtgttccc tatgttcatt tcgtcgctt ttggacactg 120  
tctcttctag aagacaacct aatggatntg ctcatttcca agcttgatag catagcctat 180  
ctctcatcac caanagtttt ttaattactt gctctagctt cgtagctagg taggaagttt 240  
tagttaagat catagcgtac agcttggttg acactcttat cctgcacac cacgcatata 300  
taaatagtta aactgtctta ttttgtgatc attaatttta tgagattctg tacataagtt 360  
tcaatatgca tatatccatc actattggaa gaa 393

<210> 30853  
<211> 303  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30853

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gttgataat gttcgaagat aaatttcaga gagccctgag ttaccaaata ataagtgatt 120  
ttttttataa aatagttaac tctattctta ccagtctgtc cccacagtgc taagatagca 180  
tttgctgctt gtgacatttt aatttgattc aaaacatctt gtactgtttc aggaattctt 240

aacttanact aaacactggc taaatctgga tattgttttt gtagtcacat ctacaaacac 300  
atg 303

<210> 30854  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30854

tgctntngtt taaaccccaa ttngaaatth cggagtgtcc taggtcgaag gttggaagtt 60  
gaggagatta ggcacggttc caatcagaga ttaaaatact taccctgtgc ggtacttggt 120  
ggagaagagg gataaaagaa acaggccaag aagatgaagg atagcacgga tagggaaaca 180  
aatgggattc tatagtggaa tattntatcc acggatatta aactctatta gttcaccttc 240  
tgtatgaaca tcttttttaa tagtcctctt cagagttttg aactctata aactctaatt 300  
aaattgggta gattttttta gtntatcaca tacatactca attagtcaac aagttaaaaa 360  
agtagaatat atatatatat atatatatat atatatatat at 402

<210> 30855  
<211> 809  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30855

ggctcgacac acagacancg tngagcagca gcccagagtat ttgcanatth gcgngtcggc 60  
nctancanta tcanacnnn nnnccccccc cncnncccc cagcaacgag cgnncctatt 120  
agtatnagcc catgcgnaag tcanncanga cancnnaann anacnacgag acangnnan 180  
gcagaccgac gcgacgcccg nacgacggng aangacgaca cggacacgan gacanacncc 240  
acgcgctagt ataagtgagc acagtactgc gcgtcgatca acgacatcng cgagggggagc 300  
gagacagacg aaggcggcga cacacatacn catcgcacga gacacagaag agtancgcga 360  
cggcatctcg ccagacaaga gcatcacaga cagnggagga caacgcgngc gaagcgacac 420  
aagactgcac agatgacaca gacaagagac aacacgccac gacacgacgg agcgacgaac 480  
aagataggaa actcgccaca cgcagcggaa caacacacga gagagcggaa tcgtgacgga 540



ggaggcgga agaaacacgc ccacgccatc tacgaaaggg acgcgangaa caggcaacga 600  
gagacgaacg acacgaaggc aggcgaacga gcaatgcacg accgggcaaa acagaacgaa 660  
cgacagaacc ggcgacaacg gaacatcgcg caacgcgaca atcggcagcg cgacaacaac 720  
acgaacaaac acaagcgcaa gcgatggaac aagagagggga gacccgggca gcaggcggaa 780  
gancaggcca gaccagacaa acctatacg 809

<210> 30856  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30856

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atgatgtata tataactctg ttattggacc caacaattgt gaagcatgtg caatgacaaa 120  
attggcagac catgtgtgga acccaccatt agtaaaacaa attaactaac aagataggtc 180  
tatgattaat cctaagaagc tcttttgatt atgcctttat ntgcattgaca tgagaagttg 240  
gcaaaagtat attgaacata aaagttggcc gagaagcttg acttatctgt cacaagcatg 300  
tcacatttct ttgagtgcag tgcactccct acgcctgctg gtgggtggaga aagacctgcc 360  
cctgtcgtga tcacaaattc acgaccacca tgctcacaca t 401

<210> 30857  
<211> 263  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30857

acaaatcgat gggccatctg gttgctagct tatatngcta ttaccacaag ttggcctctg 60  
gttgatcggt ctctatatat tgtgtgcgcg aaaaagatta aggatatcct accaaatgga 120  
ctagtcacaa aataatttct tgattgctga tattaatggg gtatttgtct gtgcagatgt 180  
atgagaatat acacacatca tttcttttgc cctgcaatcg agggaaatct gcctttctag 240  
gcttgtggag aacttaattc tca 263

<210> 30858  
 <211> 280  
 <212> DNA  
 <213> Glycine max

<400> 30858

tcccatggtg catacgaatg tgtgatggat tctgtggaaa gtcacggttt cagaggtgtg 60  
 gatgagagtt ttggaaactg cttctcctgt tgaatctgtc actcatttgt aagttttttg 120  
 tttttcgcaa tttaattact ctgccctttg gattttcaaa tttgtggacg tgtgttgga 180  
 ctgcggtttg tctctggaag aattgttctc acaatccaac gtcgcgtgaa tgtctgttct 240  
 ctcattttat tagtgcattt tacgtgttat gcctgtaatg 280

<210> 30859  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 30859

ttattataac gactaataac taaacttggt atagatatatt acttattttg gatgtgtaac 60  
 ggggtggagt actggctgtc atcgtcacaa gggaaatgga caaaatggca aaaaatattt 120  
 tataataaag ctgtcattat aagggtttat ataattcgag aaataaattg tctctctctt 180  
 taagatcgat ctatgatact atgaaggatg aaaacttcat ctttgtgaaa gacacgagat 240  
 attatcgcta aaatacttat tctaaactag tagaagaatg tttataataa aaatgttcgg 300  
 taagaatttc actttgataa tatgtcagag aaaatattta ttttaaatt ctccagatat 360  
 ggtctatttt gcgcaagttt cttatcatgg taaaat 396

<210> 30860  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30860

agcttgtgct aatgtgataa ataaaaataa ctatnttcaa aatgaccact tttgaacagt 60  
 aatttgtaat tntgcatcaa gttggtcaat cagcccttcc tttagaacgt gttttgtttt 120  
 aacgtgtttg tactttgcga tgaagcagtt gaacgtgact gtaacaaatt gttgtgattc 180

tttntgttta tgtaataaag gataaaattg tttgattcac accataaacc caacacccac 240  
 atattctgtt atgtgttggtg tctgctgctg ctctagagg cttcaccctt caccaaactc 300  
 ttctcttttc tcttcaatca cgcacgcact tctcactcat tttccagttc actttctga 359

<210> 30861  
 <211> 124  
 <212> DNA  
 <213> Glycine max

<400> 30861

tattctaaat agctctcgat agcattatga atttaggatg ctgaatctag ttgactgaaa 60  
 tataacctat tgagactgat gctttcaata ttttaattgtg attttttatt ataattcata 120  
 atga 124

<210> 30862  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30862

agctntctat atattcaaat ggtcagagct tttcacacgg aggaccgatt catgcgcgta 60  
 atatatcgag atgttcgtaa ctgaacaaca gaagctctcg agaaattcaa atggtcataa 120  
 cttttcactc ggatgtccaa ttcattgcgca tcacatatct agatgctcga aattcatcaa 180  
 ccgaagctct atagaaatgc anatggatcat aagttttcac tcggatgtca cattcaggcg 240  
 catcacatat cgagacgctc agaattgaac aatggatgct ctcgagatat tcaaattggc 300  
 ataacttttc actcgcatgt gtccaattca ggggcatcac atatcgagac gctcgataga 360  
 gaacaacgg 369

<210> 30863  
 <211> 668  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30863

gccgagaggg cacacgggtc agacaagaca acgcnnccacc cccgcgagac tgaacntggt 60

gagccntgga aaccacacac acaaaccaag ctccgcaacg agcaaaaagc agcgagataa 120  
 tcctaggaca tattactagg cagctacact gacgccatcg acgggcatg gcggcagaca 180  
 agtaagcagc gctcttgacg cacaagagag gcgacactag cgaggagata cgcatgtcgc 240  
 ctagtgatcg cacgtattga cgatagataa tatatncgcg cgaggcgtcc ccacgtcgg 300  
 agcgacggac aggcgcgcac tatcgacgcg cgcgcacgac gacggaacga tctgcgactt 360  
 acgcgtgagt gacgacacta cgagacacaa cggttcacgcg cggcngaate tcgactgcga 420  
 cgtntagaga ggcaagatcg acaatatacct ctgccctcga gtgagacgac tgacactcga 480  
 ctatctacac acgacgcaga cattacatgc gaatataccg actacaccgt cacatgtgct 540  
 atgagacgca cgagcagcga gatgacagcc acggcgacgc cactaatact acacaancga 600  
 cactgctgcg cgcgaacaca acacaagtca cagcaccgtg cgctggcgaa caaggaacgg 660  
 cactcgcc 668

<210> 30864  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30864

agctttcaat atcaacattt cttttccct ttactgagat gaaatcacca tttccaattt 60  
 ttactttgga aacaatgggt ttgtcaagtt ttttaagag gttcagggtta ttggatcatat 120  
 ggtttgtgca gccgctgttt attaaccatg aatcactgga actattgctt gtgacaaagc 180  
 atgttgcaac aaagagttgc tcatcttctc attcctccgc aaccaccttt gcttcctctg 240  
 atttggactt gcatattcgc tctacatgac ccatattgct acactntctg cacttgacat 300  
 ctggcctcca ccaacattnt ctttcaggat gatttgtctt tttgcaatgc ggac 354

<210> 30865  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30865

agggtgnttc atccnctgca atagtctga attgtgaaat ttatttggaa natectactt 60

tgaatatgta caaacgcatt ggtgagattg tagatntaag cataactaga catccgaagt 120  
gatcttatgg gaatggaatg gactcaattg cataagtaga gaatntacaa tgaattttga 180  
tgngatgga tttttcaagt tatttggttn ttaagctgac aagtatgtca acttttngng 240  
cattaatttg tagttggtgt aaaaacacta gaaaaatcaa tgaggtgtct taagacattg 300  
agaacatttc ttanattct ttgtccctaa ttctaagttt tctatttatg ggattcatcc 360  
tacccaaaca accaaatttg aatttatanc aattatattt tctaaaatgt gtttagtaag 420  
ggttttggtt tcgttaagag ttaatgaact g 451

<210> 30866  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30866

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cacaatgggc gcataaaccc aacaatccct tggtgccacc ttcaactgag ctcaacgtac 120  
tccacgtaag ccatatcctc gtttctctca acaccgggtc cccatcaatc ctctcaagct 180  
ttcacaacat ccaagcagaa caacattcaa acagcacaag ctatcacagc ccagcaaaac 240  
agagcaaagg gaggaaaact cttgctcaac accaaccaaa atcacagctt tttctcgctt 300  
aaaagacccc agaacaattc cttcgatcca aatcgttaac cggttgatcg actcgaaaat 360  
tntaatggaa gtctctagta cataagccta catn 394

<210> 30867  
<211> 475  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30867

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actgaccagc caaatcgga cagccataac gttagactcg gattcccgat tgaagctcat 120  
aatatatgga gatggtctta ggataaaaaat gaagcccatc gcanatacaa acgaccataa 180  
cttttccacc ggatctccga ataagccaag taacctatcg cgatgctcaa aatttatcat 240

ggaagactcg ggtgaattcc gacgggctaa actttttact cggatgtcca attgaggccc 300  
 ataatatatc atcgccctcg aatatagaaa tggactgacc acgcanattc ggacagccat 360  
 aacgtttgac tcggattcct gattgaagct cataatatat ggagatgctc ttangataaa 420  
 aatgaagctc atcgcanata caaacgacca taacttttcc accggatctc cgaat 475

<210> 30868  
 <211> 237  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30868

agctttctact ttatgtgcan gggcggcttt cctcactttc ttgtctncaa cgcgagctct 60  
 gaccactgtc cctcctttct gcggtgcttc ttttcatgtc cgcttgagtg ggcttataac 120  
 ctaaaccata tttcccacga tttccttggg tttttatcag gctaattatg ccgccattgt 180  
 cttttgctaa acccatcccg ggttcataac cgttcccaa cataactcgg gccatca 237

<210> 30869  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30869

tcaagaaaaa gatggcctca gcanattcct tatttccaga agggaattct atcaatagac 60  
 ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttattg 120  
 aggcaataga tctaaatatc tgggaagcca tagaaatagg gccttatata cccaccacag 180  
 tagaaagagt ttcaatagat ggtagttcat caagtgaaag cataactata gaaaaaccta 240  
 gagatagatg gtctgaagag gatagaanac gagtacaata caacttanaa gccaaaaaca 300  
 taataacatc tgccttggga atggatgaat atttcagggt ttcaaattgt aagagtgcta 360  
 aggaaatgtg ggacactctt cgattaacac atgaaggaaac tacagatggt aaaagatcta 420  
 ggataaatgc actaactcat gagtatgaat tatntagaat gaatgcgaat gaaaatattc 480

<210> 30870  
 <211> 309  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30870

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aaaaagttat tgtcatttgt atttgctcag agcatcaaca ttcaatttcg agcgtgtcga 120  
tatattacgg gactcaatca gacatccgag taaaaagtta ttgtcgtttg aatttgctca 180  
gagcttccgt attcaatttc gagcgtctcg aaatattaca tgactcaatc agacatccga 240  
gtaaaaaatt attggtcggt gaattttctc anagcttcaa cattcaattt cgagggtctc 300  
gatatatta 309

<210> 30871

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30871

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atcgagacgc tctaaattga atgttgaagc tctgaccaa ttcaaacgac gataactttt 120  
tactcggatg tctgattgag tcccgtata catcgagacc ctcgaaattg attgttgaag 180  
ctctcagcaa attcaaacga caataacatt ttactcggat gtctgattga gtcccgtat 240  
acatcgagac gtcaaaatt gaatgttgaa gctctcagca aattcaaacg acaatagctt 300  
ttttactcag atgtctgatt gagtgccgta atatatcgag acgctctana ttgaatgttg 360  
aagctctgac caaattcaac cgacgataaa tttttactcg gatgtcttat tgagccccga 420  
aatacatcga gacgctcgaa attgaat 447

<210> 30872

<211> 354

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30872

agcttactat atttttttat agtttgcgct atctaaaaag actttntcan aagggttgtt 60  
ttggctttta taataaacia gccgagccga gctgagtctt acatagaccg agtaaaaggc 120

tcttgacaag ctgttcggct catntcatc cctatttcta atgataataa tgctcataaa 180  
 aaaatatatt attaaataat atcaaaatat tcaaataaaa aatttagaat aaaaaatgat 240  
 aaaggagaa aacataaacc taccgcaat cagcactgtc tcaactcttc gacacctaac 300  
 tttattttct attntgctat ttctagatta atcacaatga ataaatatta atta 354

<210> 30873  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30873

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 aggcttctga atttctttct tttggctgag tgaggagaga gaacagtttt ttggttttaa 120  
 actaaaaggt ttttctcttt ttctattatt ttatttaagc tatgccacat gtctccattt 180  
 gagtggagca aaaaggggccc actttctctt ttgattgtga cccataactca gccacaaaaa 240  
 gtgagaaaaa acctaacctt tgaaacgcta aaatcttgcc tcggtttgcg tgccatttct 300  
 ctggttccag ttctctgcgt ttctctgcgt ccgttggggc cagttttoga aagtaagcaa 360  
 tatatatatc aaaacgatca g 381

<210> 30874  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30874

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 atgcatangc ccaaagttga gtatgggtgaa aagattgtat gacccaagtg aaggtgcaaa 120  
 attgcaaaaa aagaatgaaa agctatacca aagcaagccc acaaagaaaa gggaaggaag 180  
 tggtaccttg aacnccagt atgaatcctg ggacatttga gggcaaatgg tttccaagaa 240  
 ggaggtaatg atgagaatct tgaaactgac caaatacagg cttaaaggccc aagtggagaa 300  
 nggatgaaag cccagtggag aaggacaaag cccccgagtg gagaaggatg aaggcctana 360  
 gacagagaca ttatcaagac 380



<210> 30875  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30875

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 ttgcacttag aattttccaa gatgtctata ttgaagtgtt taatgggtat gtactgtcag 120  
 catacaagat tttgcacttg tcaaccaatt aagagtcacg tttgggtgtga ttttttgggt 180  
 gggtattttc aaagtcaaca aacttactat agaagatgtc ttgtgcttgg atgatagtgt 240  
 taaagcactt tacgataatg tcagagataa tgtcagagca tatacatttg tattctatat 300  
 tgaatatcta ctttgcgtgac tcgaaacata caatctatat actcagtact tcgactagt 360  
 gctgctaata taaacttttg taaacaa 387

<210> 30876  
 <211> 295  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30876

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 caaacccccga tgggttcggt ggtaaaattt attaaaaaac ttccattttt gcaggagaag 120  
 gtgaatgggtg atgggggggtt tgtacgggtt ttttaatcat tgtgcgaacc ttggagatgc 180  
 tggtagattg tagaatgtac tgaaatgtgg ctacggacca aaattatcag aacagaacac 240  
 aacagtcttt gtttttgttt taatttatcc atgtagagaa gtttattatg ggagt 295

<210> 30877  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30877

ctttatatca tgctgttctt attacagtca tagagtcctt ttcatagtt atanttttga 60

66444-907440

tcgttagata tatacggaa ttgggggtcg atggattaaa taatttttgc ctataaaaa 120  
 attgtgtcac actacagctt agccatgttc actaccctaa acaaagtcaa tacttggtta 180  
 gatcaatgta tgaacgtgta taacgcatac atgtgcatgc atgaccaca agtgcataac 240  
 tgaagcccac ctttgtcctt cattgccacc aacgaagtca agtcaccaa ctttacttta 300  
 cttcaaccac aagggtgtaa ttcttcggtta tt 332

<210> 30878  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30878

tcgattcatt ctatgtgccc gtagtgggtcc acattgtgtt tcgtgcattt atattctcgt 60  
 tttggttact ttgtataccc cctgttgacg tgcttaagcc attntactta agtcatttct 120  
 cgcttaactt aaaaataaaa taaatttcca ccgaacgttt gaattgtatt atccattaac 180  
 ttcggttaaa ataaattccg accgttcggt cgtgccgtaa ccacgttgga aatcaaaaag 240  
 aggtaaaaaa taatacaata atcaaaaaga catcttttag taaaataaag cgganaatca 300  
 agtggacgtt ttctctttgg gatntctcat tcttaatcga attgattaat aacta 355

<210> 30879  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 30879

agcccggcca ccgcgagctg aacaacagac ccccccccc gagaatgagc tgaaacgcca 60  
 aaacccccga agagagccac actcagacca gcgttaatcc acaccacgc ccggaaggga 120  
 aaacacaacg cacaacagaa cgcacaccgc cgaaaaggaa aacaacggga gaaaagcgca 180  
 caccgaccgga tagaagggaag caggcgaaca gcgaacgacc cccacaaacg gcgacggacg 240  
 aaacacacgc caaaaacacg ccaaagcagc agcggagggc ggacaaggac ggacgcacag 300  
 caaaggggac cacacccgac aacaagctcg aagggcggca aaaggcgcgc accgcgaaca 360  
 ccgagcccga aagcagcaac tacacg 386

<210> 30880  
 <211> 329  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30880

ttgcttaatt atatgtggac taaaccgggc cattggacca tgtgtatttt gcctatccta 60  
 gacaacctat ataacttttt tttattttct gcagcgcacg caaacgaac tcaactggct 120  
 gggttttcta ttcaactaaa caccttatat atactttatt ttaattcact ctntttattt 180  
 ccatttatca tattcatctt ctcacaacca aacacagatt gccgtatata aatcatgtaa 240  
 ataattttgg aaaaaggatg catgaatcta tgagaatgaa aatgaaaaca tggattcgat 300  
 atncacaaat atgatgaaat ggtggtgca 329

<210> 30881  
 <211> 565  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30881

cgtcccacta cattccacac gccattccaa tatctgcgaa tcttcttctt cnnntaccgc 60  
 ccaaccagag cgcgttgac cgtgtttgat ccttttctat aactgacctt taaatctcag 120  
 cttgcgctag ggcaagtgc tctgatgatg gttgcctatg tatttgaaga cactctctag 180  
 acttcaagcc attgacacca ttggctagag aatggtgatt aaatgggagg tcaagatatc 240  
 tagcgaaaga ttacgatcat tgactgagag tggctcgcac gatcagtatt tctctgatgt 300  
 atctttgccca ggattatcaa gaactctatt tttcgtgctg tattaatgga acgatatatc 360  
 tgtgttactc ctggaattcg aacacctagt ttcctttttt tgattgtgaa ccatacataa 420  
 tccaaataag gatgctttgt ttatttgcaa actaagcaaa tatctaaata tattcttttg 480  
 acaactgcgc ggtaataaga catcaaaaag attttctgct tactccactg ctgaactcac 540  
 tacttttctc tgtttattga tgctc 565

<210> 30882  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 30882

agcttattgt attatgtaac aatgatgtca ggttttgaga aactaagggtg ttaaaagata 60  
acaaggaaaa tgatagaaaa caggtaactg aacaacttgt gcgattgtgc gattgttctg 120  
acagttgata cattatcatc atggtggatt gtgactntgt gagttgtggg attccttcta 180  
tatttaacat ctttgaaaca taaagcagcc actggatgtg gatgttgaat cgtgttatct 240  
ctgcatcacg aattatgttg cgtccttggt gtatcgttgc ttttggcatt gaatttcaag 300  
agtatgatta taaatgtcca gttcttaatc ttcccggcaa ttaaagcaat gctagcataa 360  
gttttttaaa agatata 377

<210> 30883  
<211> 456  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30883

ctgaatntac taggtttaaa natataaaga taagagggaa aaaatatcaa aaatactcac 60  
aatacttgta atctttccaa tgcaaggagg tgcactctaa atactataat ttggtttgcc 120  
gctatatcca acaatcttca agttgggctt aagggataga tagccaacat ggattgaacc 180  
ttgtctgtag cacaggaatt aagaaaatca tttgcttttg actgtatgga tagtgactcg 240  
tgtattgact tcctttccaa aatctttgtc gtctctctaa ggattntaat ttgctgtttt 300  
agttaatggc ttactgctat aggattcaa ttcccaagca ttagntnttg ctnttgtttt 360  
tcttttcttc ttataataga aaaaactaan aaaggcaaaa ttaattgagt tgggaatgga 420  
tcttngcaa tatttttatc actatatgga atcata 456

<210> 30884  
<211> 369  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30884

agctngttct tcttctgngt aactacaacg atcttgggtct tcttcttctt cagcacagtg 60

ataccttgcc accttaccta ggtacagggtt tcacgactct tttgttgttt taactacaac 120  
 ggtcttcgta ttgtttgttt gtttggggaa gtcgtgctca ttgcaacaat agttgtttgt 180  
 ttgtgttgca aggagttggt ttgtggaact catgctcgct gcaaggaatt ggtgtgtgga 240  
 actcgtggtg attgctannng gctgttgggg tgctgactat gcaaaccgtt cggggtggtc 300  
 actcgtgctg gcaagggtgc attttgagtg agggtaattc aaatgttntg tgcctttga 360  
 atgcttaat 369

<210> 30885  
 <211> 475  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30885

tgacnccctg caanacgtga ctcgatgctc agcgacctta aagcacaact ttgctggctc 60  
 aactccgagt tcttagatta taaagatata cttgtaccac tacagcttgg tatcatatca 120  
 ggacaataag ccttctgaaa tcgagacaag agagtgatcg ataccgctgc tgacaagtgt 180  
 aaactacacc ttgaccgtga atactatacc agaccctata ctaagctagt tactaagaga 240  
 ttatatagag tattgcgcat acacagtgca tgtgagatat tatcactact catacactca 300  
 attcaatcga tctatttgtc tattcacgag aactcataaa ttctcttctc tatactagaa 360  
 tctcagcgag atctctcat aatgtgcacc tacaccgaga agcaaacagt gcatcaatta 420  
 ctattcatca gctatcagtg ctattttctg gtctctgagt cctaagacta attct 475

<210> 30886  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30886

agcttgtttg gttctccttt gccaatgtca aatctgtaac ctggtggaag ccacagaacc 60  
 caatgttttc ttttgtcatt ctacttatgt agtagaatat agtataccag ctccatttac 120  
 aaagacttga aaagactaac cattccttcc atctttgagg taaatngacc accacattgt 180  
 tgcttcagtt ttgtcaaaat acttctctca tgatcatcat tggcactctt gtcaaaaagg 240

agccttcgag caagcttctt cctacaagca atcacgcaag aacatgtntg actattcttt 300  
 tgcaagcatc ttacagtang aaaaaaggta atgatgacac tcaaattagc cacagaaagc 360  
 agaattcaat gatagactac ca 382

<210> 30887  
 <211> 588  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30887

ggggcaggcg tgtcagacgn cgcgacgagg ataangcgac gtggcncnc ccccccccc 60  
 gacgagcaac ttgaccccat ggatagaacc cantgggaan ancacacaca ctcagaanac 120  
 ataacgatgc gccgcgggac cacgagacag caaggcagaa ggatagcctc gcggtacttg 180  
 acaagccctc tgcgagacga gcaacggcgc tgaccgccat gggcaggagg aatcgccact 240  
 gaaacgcgag gccaaagaagc tccacggccc cagccgcac actggctgac agtgagcggg 300  
 ccgaatcccc tncacgcaga ggagctgcgc cgagatccca ggcgacagca cgggtggcgcg 360  
 acgaagaagg gaaagaacag tcaggcctcc aaggcaaacg caaaccggg taccctgtgc 420  
 cggctgaacc cgcacggagc acacgaggat gctcgcttga cgcgacacgc cccggagcac 480  
 agaccggcgn ccaatagacc cagccgcccg caggaggcag acacacaatc gggacacggc 540  
 agaagaccag cggtcacaca aaaacggaga cgaagagacc ggcccgc 588

<210> 30888  
 <211> 628  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30888

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 agatcgtata nngtatannn annnncaacg agtgtgcntt ttgatgcctt tgtaantcca 120  
 tggcaaatac aaactcggtc ctcgtggatt ctctacactc gacctgcacg catgcacagc 180  
 atgttccgat tatttgtgta tatcatcaca tgtaggtact attgaggatg tacgggcaaa 240  
 cggtacataa tacaatatct cccatcatct atcaatatct acatatacaa ctccatccat 300

ccctctagtt gtccactct tcacactgaa gcacacatta cgtcacatcg tagccactta 360  
 taccgcgata taactcatac acctgagccc tattctatac ctacataagc tttccaccaa 420  
 tcattcaagg taatttaatc atctcactca tctcaatatt atctaaaacc aatcaactat 480  
 agtgaacata gcacaatata ttgaaccata cttactccta aataataatc ttctacaaca 540  
 tatatgaaac cctcataaac aattacgtat atcatacggt tcatcattct aagaatttat 600  
 atggatatcc ctaatcatat gccataat 628

<210> 30889  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<400> 30889  
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 ggtaaagggga tgtcccatat tatttccatg acacgcgcgc aacaatgatg attcagaaat 120  
 tctatgcaaa actggtcaca cattcaccta tgtggacact caagcatcaa gatttggtgg 180  
 tcacgcgaca ctatggctca ggattcatta tttttcctat ttaagtcaac tcattgtttc 240  
 caaaatatgc tccttgatca aatcatgcat tcactctgagt ccattttggg cgttctggaa 300  
 aattatctca acattcaccc ttcagggtgcg tacatat 337

<210> 30890  
 <211> 299  
 <212> DNA  
 <213> Glycine max

<400> 30890  
 atgtggaagt cggcctatgg atcactacat agattacaga gacactaatc acgcataaac 60  
 cctccatagc atgatgtcct aattcaactg aactcactta ctacaacgaa gcccatatgc 120  
 tegattctct caacactcgg ggccgaatcc atcctgcaa gctgtaccaa cctccgcgta 180  
 ctacaacatt caaacagcac aaaataggca tccaggcata acaaggcaaa ggcggaacac 240  
 tctgccctaa acaccaacct agatcacagc ttttatgact gaaagacctc agtaacaat 299

<210> 30891  
 <211> 320  
 <212> DNA

<213> Glycine max

<400> 30891

tacatatgta ctgacctaga gccaacataa cactataggc atgcatcatt accgttgaca 60  
ctgcagccga tgcgattact atatgctaca tgctccatat tgataccaat ctacatggca 120  
caccttcaat acgtacactt ggcaaacaca ttcaactctt caacctcatg ctcacgcttc 180  
tctttcacat cttcacctaa tggcctacga tgaccttcat ttgcatgtac tgtctgacta 240  
gcgteccgtc ttatcttcga cagcatcatg catatcctct tcatgcgcca ccgacgaaga 300  
aaactgtaat tatctatcgc 320

<210> 30892

<211> 97

<212> DNA

<213> Glycine max

<400> 30892

agctgtttga tatattatgc tcttgaatcg gacctcctag ttctaagtca tgaccattta 60  
actctcctga tagcctccgc agatcaatct tgagcct 97

<210> 30893

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30893

ctatagcaaa ctcaagctnt caagaaattc aaatggctct aacttttaac tcggagggtt 60  
gattgatgtt tataatatat cgacacgctc caaattgaac aatggaagct cttgagcaat 120  
tcaaattggtc ataaatagtc actcggaggt ccgattcatg cgcataattt atcaagacgc 180  
tcgaaattga acaacagaag ctttcaagaa attcaaatgg tcataacttt taagtcggat 240  
gtccgattca ggcacataat atatcgagac tcacgaaatt gaacaacgga agctctcgag 300  
aaattcaaat ggtcaaaaact tttaactcgg atgtccgatt caagcacata atatatcgag 360  
acgcgcataa ttgaacaacg gaagctctcg agaaattcaa atgggtctaac tt 412

<210> 30894

<211> 240



<212> DNA  
<213> Glycine max

<400> 30894

accatagtca tggataggaa ccggaagaag acgcccctaa tatctgtcac ctgtatcaga 60  
tatcatggtc agaagctttt cgccaaactc agcaatatga ccaatgtata tgcggacata 120  
gcaaaatgct cccagatgct caaagagtga gcatctggcg ttgaatattt ttctattctt 180  
cttagcacia ttggaatctc tatgagcctg atactatcac cttatctcat aaaagatcct 240

<210> 30895  
<211> 200  
<212> DNA  
<213> Glycine max

<400> 30895

agcttgactt gaggatgaa gagaatataa atatgtggcc atgttatgag gtttatataa 60  
tcacccctcc aacgatctta tcaactatca atcattcttt ggatcatcct atctttcaat 120  
tcttttttaa catccattgt caaacatttt tcaatgaatc tttcaatagt ctttctatgg 180  
aaattttcga ttcatttctc 200

<210> 30896  
<211> 259  
<212> DNA  
<213> Glycine max

<400> 30896

accctttatt gctaattcat ctctagaac tcaagtacaa agtctacctg acaatctttc 60  
attctacttt acttggcata atacattaca ggacactaaa cccaagtacc ttgtaccaac 120  
ccaagctgct tgtacaacct atataccagg ccccttgatc attctaaaac caagatccct 180  
tategtactc taaactaac accatgcaag tcaagtaaca aacaactccc caactttgca 240  
cactcatcag gatgcatac 259

<210> 30897  
<211> 574  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 30897

cacacccact cacgtcagta actnagnaana atatantaat aatcgaatac tccccaaaact 60  
catgtncagg ataattatnt ccacagggct acaggncnac gttgaaacca tgtagaacc 120  
nnctgcaann acgcgacacn anagaanact caagctggct tgccttaaga tgacaaaggg 180  
atgttataaa aattctatcc atacacactg agtcctcaag aaaggctgca gacgaccatg 240  
atggctttcg ggtgtcaaag agtctactta gactctggct gaataaaggg agactaaagt 300  
agtctcggac ggtgcacatc gagtcttcga caaaagggac agacgaccat ctttgtctct 360  
gcgtgaatca cacttgattg cctcaggatg acgaggggga gacctaaaga cccccagtcg 420  
ataaacaacg agtccacgaa caacagtgc caccaccatg tcgggtctcta ctcttcgaca 480  
aacatgattg cctccggatg aagacgcgga cactaacgta atctcgaacg aacaacatct 540  
acacctcaac aaataggcgc acaaaaccat gtcg 574

<210> 30898

<211> 379

<212> DNA

<213> Glycine max

<400> 30898

ctgcgcgctt caatcttggt gtaaactgaa taggccacaa cggtcgagac cacacatcta 60  
ttcttagctt aattaaactg cagaatcaaa tcataagcac aaccagttct gtataactat 120  
caatcacacac ggccatcaag tgataaccaa ctaataaaca agcgaaagta catacgatga 180  
tggtcaacgg attgtggaat tgaaactcaa gaattgaaca accttcgaca taatatcagt 240  
gcttattata gaaactgtgg aggtatcacga atatgtgtga aagaaaataa cacttaatat 300  
taactagatt aatgctgact gaatactatc taatgtcttg acaagtactt cgtgataata 360  
cctggaatat ataccttca 379

<210> 30899

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30899

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tgttcttcaa ttagaattgg agttttacct atgtaatata tgttgatctt ttatagaaga 120  
 ttttattacg tggattatca agatgaaact ccaattctga tcggagaaca aactaaaaa 180  
 cacttaagaa actacaccta agttttgtcc tttattttat agtaactttg ttcataaagt 240  
 tactagaatg atcaataaac tacaaatttg tgggtgaata ggaactgaga cgtttcccaa 300  
 ctctccaagc cgaaatagca gcagctacaa atgaggcttt agagagggtc cgcgaaagaga 360  
 gtaagaagac agctatgagg cttgtggaca tggaagcttc ctatctcact gtgg 414

<210> 30900  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 30900  
 cagttttcca cttgtactcg tgataaaatt aaagaaacat gttagattaa gtatcccaca 60  
 atttaagcaa gaataacttc attttggctt ccaaccttac tggatctag gcattactat 120  
 gtaacacata cgttttctac tatgacatag tgcataagtc ctaccaataa ttttcaagta 180  
 ctaattaatt aaataattga aagttgaaac tacactatcg atatacattg attagcttca 240  
 caacttgcta aactagaac actgaaacat tcttcatttt acacaaaaaa tactaataag 300  
 aaataaaaag actgcgtggg gttggaagaa ccaaaacgta gcaaactaca ctataactca 360  
 ttgcttaaag catgaacaat cttaacctga ggaaaac 397

<210> 30901  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30901

ntgcggattt ggtcttcgcc agagaattga tcgatgtgtt ttctaacaga ggcaaatttg 60  
 atcatcctac taggacgact gagaaaactg gggcaaata agagggtgag aaagagggag 120  
 aaacccatgc tgtgactgcc attcctatac ggccaaggtt cccaccaaac ccaacaatgt 180  
 cattacttag tcaataacaa acctactcct taccaccac ccagttatcc acaaaggcca 240  
 tccttaaate aaccacaaaa cctgtctacc gcacttccaa tgacgaagac cacctttatc 300

acaaaccaaa aaaacacc

318

<210> 30902  
<211> 383  
<212> DNA  
<213> Glycine max

<400> 30902

agcttatgtg attatagtag ctcagctgta tcattgggta aagaattggg gggcattgaa 60  
cttttggctc ataggttaca gaaagaggta cacagagtca ttggtttggt tggaggaact 120  
gataacatga tgcttactgg tgaaagcttg ggacatagta ctgatcaatt gtactcccag 180  
aagagactca taaaggtctc ccttaaggcg cttggttctg caacatatcg cacctgcaaa 240  
ctctaccaga tctcaacatt ctcaagacag ttcattacct ataactctaa acttgatttt 300  
taaaaatgaa gataaagttg gaggtgacat ttattattca gctgtactga tatgagttaa 360  
taattcaca aatcctacct ttt 383

<210> 30903  
<211> 475  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30903

cctactccac caatattatc tttatataa gtgtatttat nctatattac anctctacna 60  
caacagaaaa ttgagcatga anctttgaac cagcagaccg ggatcttgga gcaccagcag 120  
cagcagcgtt ttctcattcc tctgtttacg agcaaaagta gacagcctac tcgttagact 180  
aattaaaact aagattccta ctctatccta tgctggacta gaccagctta taagctgaca 240  
aagttagacc aattagccta agcatagcct cattcccgtt attggactag atgagaccaa 300  
caacattatt ctaacagcat atcttaaacc aaacttaatc cgcaaccctc attaagacta 360  
gattcatcct gctaattaa gttaatgcac agaaatttcc atgctaagta cctagcctgc 420  
cacatagggg gacgaccaca gctacaaatc tatcacttaa tgagcatgac acacg 475

<210> 30904  
<211> 305  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30904

agcttatgga ttatagtagc tcagctgtat cattgtttaa agaattgggg ggcattgaac 60  
ttttggctca gaggttacag aaagaggtac acagagtcac tggtttggtt ggaggaactg 120  
ataacatgat gcttactggt gaaagcttgn gacatagtag tgatcaattg tactcccaga 180  
agagactcat aaaggtctcc cttaaggcgc ttggttctgc aacatacgca cctgcaaact 240  
ctaccagatc tcaacattct caagacagtt cattacctat aactctaagc ttgattttta 300  
agaat 305

<210> 30905  
<211> 411  
<212> DNA  
<213> Glycine max

<400> 30905

tgtaagtatt cgtgactcat gagattcatg gaaagtaagc atttgttctt actcaagtat 60  
gtagaattat taatttttgt tgttatcctg actctggaga tctgcagttt aaccatatgt 120  
tttatggaat tgttcaatta caacatagtt cacttttttag taaatattaa aatgaaagtc 180  
tacttgtttt acagagataa atagatgttt tgcattgggtt aattttgtta attagtgtga 240  
gcttgaagat gtatgctaaa atgactctgt tactagttaa atttggcaaa aaaataaaaa 300  
taaaaatcag cattctacat ctacatcggt ttagaccaa aaacgatgta gaaactctac 360  
attctacatc ggttggatct cataacgatg tagaaacttc acaattctac a 411

<210> 30906  
<211> 93  
<212> DNA  
<213> Glycine max

<400> 30906

tagcttttta ctctatacta agtaatgagc ggtcacttct gagacagata tatatacata 60  
tatacatata tatatatata tatctatata tat 93

<210> 30907  
<211> 400  
<212> DNA

<213> Glycine max

<400> 30907

agcttcatcc tcagatccct cttgttggac taggcttaat ttagacagcc ctccctagggt 60  
tagactaatt taaactaagt ttcgtcctca gatccctcat gttggactag acacagctta 120  
aatagcttac aaaagttag actaatttag cctaagcttt gtcctcatat cctctctatt 180  
ggactagact tagaccaaac aacattattc taacagcata tttaaaacca aaacttaatc 240  
cgcagatccc tcatttaaga ctaagtttca atcctgcttc attcaagttc taaggcaaca 300  
gtacatttcc caatgctaaa gtcacctaac catgcacaca aatgggtgat cagacaaaaa 360  
gcatacagaa ttttaagcact aagagaagca ttgaacacaa 400

<210> 30908

<211> 372

<212> DNA

<213> Glycine max

<400> 30908

tactgcgaca tgaaagagtg gtcagcgctt tcagatttct cctagcccag caggctgtca 60  
tgaggactct ccacatgccc acacacgata atctttcata accttcttcc gacaatgatc 120  
tctcatgcag ctcatactct taagactgtc actctatatg acatgctcca tattatatgc 180  
agcatgcagg tcatatcadc accatatact atatggactg ctacttctgt cgacaagatc 240  
agtctcttta gaatctataa ctgatccaga cccaaccgac tggagtata cctatgtaag 300  
agcattcctt caaacgtttc tttgaatctt caatacgcag ctacatatc tcaaacta 360  
gcaccgtaca tg 372

<210> 30909

<211> 402

<212> DNA

<213> Glycine max

<400> 30909

agcttcttat ccaaggetca tcttgggtgt gaagctcctt ctccatggc ttattcctta 60  
atggatggcg cctcctctca cctccttcc tttgtcttcc gctgcatctc catggtggaa 120  
aatcaccatt aaaggacccc attgaagctc aaagatccag cctccataga agccccacaa 180

gcaagcttcc atcatagaag ggtcagaatg gtcgaggcag atcaaagtca agaggggaaag 240  
 gtcaaagaaa atttcaaagt ggcattactt gttggaattg tgacaagaga ggtcacttca 300  
 gcaatcagtg taagccacca aagaagatca agtcgcacaa aaacaagaag cgcgatgatg 360  
 atgaatccac aaatgcagca actgatgaac ttgatgatgc at 402

<210> 30910  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 30910

gcgcgggtct gggagacgaa gggcaagtgg aacgttatat acgattatga tgttccgagt 60  
 acattggatt tggtagcacc atgccctcct gatttccagg tgggaaattg gcgagaggag 120  
 gaacgccttg acattgactc agcagacata atgtcaacct ttacggatct aaaagctcta 180  
 tagctggggc taggctttag aagttttcct ttgggtaagg ctttgtgact ttcgtttttg 240  
 aatttataat acaaggacct tgtttcatct gttcctacgt atctacccat tctcattcat 300  
 ttgcatgatg acttcttttt ctaaaacggc agatccgatg acgagtcctt cgaaggtatt 360  
 aatacctggg acccgcctat caacttcgag caagagatga atcacaccga atatga 416

<210> 30911  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<400> 30911

agcttgtaat atgtctagcc aactatatgt tcagttactg gtggcctgtg gaagatgatt 60  
 gggtttttta ctgcattgta taatgaatga tcgaggccgt acccgaatca aataatcatt 120  
 aaaaatacag tatttaggaa gtgacccatg gtcgtctccc aacgagcaat ggtcaaccaa 180  
 atgttcataa cagatagtaa taaaacagta acgaattggg gggggggggg tgtttgttta 240  
 tagaaactac acaatcataa aattctaatt gtactatatc agagataaat catgtagtat 300  
 caccttgatt cacaagctag gttcttatcc tatgatacca tgatttatt 349

<210> 30912  
 <211> 428  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30912

ctcaagcttg tggagcttag agaccttgta naaagtcacg tgggaatatg gtttattcta 60  
tacttgctg atctgaagag gttgtctgag ttctgggtcaa gttactgtga gcaaagaaca 120  
tactactact gttctgtggt gcatatagtg atggagctta taaaattgat tagtggatat 180  
ggggagaatg gtagattgtg gcttatgggg attgcaactt ttggaacata catgaatggt 240  
caagcatgta acccctccct tgagactatt tgggatcttc acctctttac agttccagtg 300  
ttactatcat ccttgagact agcttaactt ttgataggag ataattatcc ttctatatac 360  
ttcttattta tgcttgagtg tacaatattg atttcttagt gatattaata cgctgggtgtt 420  
tttgtctc 428

<210> 30913

<211> 133

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30913

tctacgctta ccgcaggagg agacatacaa cgaggagaa actccacgtt gtacgtcgcg 60  
cgcagctcgt caacttgag gaactatacc gtgttacatg cgctgctcat gaagacgatg 120  
tataaaccca ctn 133

<210> 30914

<211> 319

<212> DNA

<213> Glycine max

<400> 30914

gtaatgaacg atatacctgt gagggacagg gccgatacgt taaccactat gaaagtggaa 60  
acaattgact tcccatgcga tctatcaagg acacgcgttg taataagacc accgacgagt 120  
acctttggta gagaatccca caccaacctt taaaagacga atcccatgg tgaaagtcaa 180  
tgaagaatta ttgctcacag tttttgggtg accacacgag atcggtacta gaggtcgcgt 240  
ggctagactg ttctttcttg cgaatgtgga ggagcatttg cggatgtgat taccataacg 300



ctaacttgaa tatccccga

319

<210> 30915  
<211> 413  
<212> DNA  
<213> Glycine max

<400> 30915

tcatgatgaa tcaagatcgg ttcagagatg ttctgatgat atcaaagatg aagaccaagg 60  
tgatgacgaa aagctcagcg ctcaatcata gaatgagttc aagatgggtca agatagaatc 120  
acgatcactt caagactcac gagggaaagtg gaagaactct tcgagattca agaggaaagg 180  
tgagtccctag aatcaagaat cacgattcaa ggatcaagct ttcgagaatc aggatcaaga 240  
ttcaagactt aagactcatg aatcatgaga aggcttaatc aatatcagta tgaaaagggtt 300  
tcttcaaaaa ctaagtagca catggatggt tctccgaaca tgtttaccac agagtgttta 360  
ctctctggtg actgatcacc agactgctgg aatcgattac cagtagcaga atg 413

<210> 30916  
<211> 387  
<212> DNA  
<213> Glycine max

<400> 30916

agcttctatc caaatggact taccttgaat taattcctta gatagccctt ttgagccttg 60  
tttctttttc cttgtttaga agctcactac aatccttatg tgaaaaacca tgatattacc 120  
atataccttaa ggaattttgg agcttttgaa ttgttttggg aataacagtg gggggttttt 180  
gtttcattga acaacttgta ttgttggtta tgcttcatga tgtatgttgg gccatacttg 240  
atgtacattg tatatgggat aaatgatgga catgctgaat gaaatgttgt ttctcaaagg 300  
ctatacagta aaaaaaaaaa taaaattcga aaaaaaaaaa cgaataatag aaagagatca 360  
gcaataaagt tgagtgaata agatctt 387

<210> 30917  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30917

tgtatacatg aatttgattn ttatgatgct canaacctat atgttgggaa acataaactt 60  
catcttcagt gatccattta gggaaacact cttgacatcc atttgggtcta actntaaatc 120  
cataacataa gcataagtag taatcttacc acttctagtc tagctatcgg tgcataagct 180  
taaccaaaga ctatactggt ttgttgggta tagctcttga ctactatcct tgccttattc 240  
ctagtgatca aaccatgttc attcaattta tttttaaaca ctcatttagt gtaaagtatg 300  
ttcatgtttt taaaataagg tattaattcc catatatcat ttcttttaaa ttgggttcaac 360  
tcctcatgca tggacatcat ccagaactta catttgagt cctcttctat agacaatgg 419

<210> 30918  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30918

agcttgagtg cttntgctgc aggacaagct gcagccttta agatgtttga aacaattaaa 60  
aggaagccag aaattgatgc ttatgacact actggtcggc agcttgatga catccgtgga 120  
gatatagaac ttagggaggt ttgctttagt taccctacta gacctgatga actgatattc 180  
aatggattnt ctctttcaat accaagcggc actacaacag ctttggtagg agaaagtggg 240  
agtgggaaat ccacagttgt tggtttgata gagagatttt atgatccaca ggcaggtgaa 300  
gttctcattg acagtatcaa cctcaaagaa ttcaaactga aatggatcag acagaanata 360  
ggcctagtta gccaggaacc agttctcttt a 391

<210> 30919  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30919

gtgattggac atgggtgaaa ggataattat caacacaatt atacgggtttt ttgtagatac 60  
tactcaaaca ttgggttacct cttttagttt tagctcattg gggggcaaata ttaagccact 120  
cattaagatt atttttattg acaacatgcc tgtgtgtaaa atgatcaatt aggatttgac 180  
agtgtcaaac aatgggttntg gatttgtatt cagctcaatc tatgcaagaa aaacaaaaaa 240

ggggatgagc tctgatacat gcagaacata attaatcttg tcacctgctg gaaactggct 300  
 aaatccctgt ttatatcttg ctgttgaatt tcatggatat gctgcttgaa gatttgatta 360  
 gattataatt tatacatatg gtatgacttg tga 393

<210> 30920  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 30920

agcttttaag tgcgggttcg ggagacaaag gtcaagcgtt cgcgatatgc gaagatgata 60  
 ttccgagtac tttggatttg gtacgaccat gctctcctga tttccagctg ggaaattggc 120  
 gagtggagga acgccccggc atttacgcaa caagcataat gtaaacccttt acgggttttaa 180  
 aaagctctat agttgggcct aggctttaga gttttcattt tgttaaggct ttgtgtcttt 240  
 tgtttttgaa ttataatac aaggatcttt ctccatctgt tcctgggtctc taccattctc 300  
 cattcatttg catgtttact tctttttcta aaacggcaga ttcgatgacg agtcccccca 360  
 atgtactaat acct 374

<210> 30921  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 30921

tcaccggatg atgcagatcg aacatttctt aatctatatc atccaattgg tattcagcga 60  
 ttgaatagaa taaacaatgg ccggtgtcgg tcgttatatg gccccgactg atatctttca 120  
 gccgacattg cgcaatttct tttaaaaacg cttgccgata atgttttttt tttttttacg 180  
 gtagaggaag tttttggttt tgggtgttgc taaaaattt acaacgtaag tcggctaggt 240  
 ttttccgtgc gagtcaacc gagggttcgc tcccacagac actggcatgt tgttcttctc 300  
 atttatgagg acaagataac gttggcccat cccggcaaaa acaataaaa aacattattc 360  
 accgaaattg atcgaaaaaa atgatagctg acgtcggaat gg 402

<210> 30922  
 <211> 384

<212> DNA  
<213> Glycine max

<400> 30922

agcttattct tgtctgaggc atcttccaag tcaatatctt tttcttcctt gagttcatca 60  
tatatccaaa acggaagta atcattgctt gaaagttgat ctggaagagg atctgagttc 120  
ctccttctac ttgccatttc catcaaaagc tttccaaaac tataaacgtc ggccttatat 180  
gatactccac caatattttt gtagtataat tctggagcta tgtagcccaa agttccaatt 240  
gcttcaggtta aaacaagaga cctatctttc acaggatgta gctttgcaag tccaaaatct 300  
gaaacctttg ggatgaagct ctcatctaga agaattattgt gtggcttgat atcaaaatgt 360  
agaatttgca catcacaacc ttca 384

<210> 30923  
<211> 328  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30923

tcccgatatcc gtacttgga ggaatctgatt actgcctttc taangcaata tcagtataac 60  
tccgatatgg ctcccgatcg cactcagctg cagaatatgt tcaagaaaga gggtgaaacc 120  
tttaaagaat acgcacaacg gtggagagac ctggccgcac aagtggctcc tcccatgggt 180  
gagagagaga tgatcaccat gatggttagac actctgccag tgttctacta tgagaagcta 240  
gtaggttaca tgccgtccag cttcgcgac ctagtgttcg ccggggaaag aatcgaggta 300  
ggattgaaaa gaggaagtt cgattatg 328

<210> 30924  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 30924

agcttgagct atcagaagac ttgcttattc atttagtggt gattttctcta ccttcacagt 60  
ttagtcagtt taagatctct tataactggt agaaggagaa atgggtctctt aatgagctca 120  
tttcataccg tgtgcaagaa aaggaaaggc tgaagcaaga aaggactgaa agtgctcatg 180

ttgtgagtac ctctaaagac aaaggcaaaa gaaaaaggac tgaggagccc aagaatgaag 240  
 ttgttaaggg tccaagacaa aagaaacaaa atcagggtga caactttttc tcttacagta 300  
 agcgtggaca tgtagagaag aaatgtaaca aatatcatgc ttggcgtgca aagaagggtta 360  
 tgtttcttac tctagtcta 379

<210> 30925  
 <211> 416  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30925

ntacaacacg gccaaagtga tcttntttgt ggggaacgat gctctggtct tccaccatga 60  
 cttgtccata atcattccgg caacggagga aatcagaact tgtgagaggt tattaatgac 120  
 tntataaccag aaccatctga aacaaattaa gaagatcgaa caaaataaaa gtgaattaat 180  
 attgcacatc tatactaaat caaatgatgtt gaacaaaggc ttaactaact aattatgagt 240  
 ataccttgta gctgcatctt cttgaagatt ttagaatcga tcacagatat gattgggtggt 300  
 tacagcgtga atggaagaag actgaaaatg cctatgatgg agtagctatc caatacttga 360  
 tcattctatt gggtgtatca acttctcggt ggtatataca ggaatggtct tggatc 416

<210> 30926  
 <211> 402  
 <212> DNA  
 <213> Glycine max  
 <400> 30926

agcttgaaga ggatgcttta atggaggaaa agaaagaggg agagaagtgg aactttgaag 60  
 tgtatctcat aagactttca ttcatacaag ttacaacaag tgttacacat gcttctatct 120  
 atagactagg tagcttcctt gagaagcttt cttgaagaaa cttccttgag aagcttcggt 180  
 gagatgctag agcttatcta cacacacca tctaataact aagctcacct ccttgagaag 240  
 ctagagctta gctacacaca cccctctaata aactaagctc acctccttaa gaagagaagc 300  
 tagagcttag ctacacaccc ctataatagc taagctcacc cccatgacaa aatacatgag 360  
 aatacaaaaa aaaaatccta ctacaaagac tactcaaaat gc 402

<210> 30927  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 30927

tacggaccta tgaaactcag cttttatcca ggctcatctt ggtggtgaag ctccttcttt 60  
 ctggcttatt tcctagtgga tgacgcctcc tctcacctct tctcctttgt cttctgctgc 120  
 atctccatgg tggaaaataa acattaaagg acctcattga agctcaaaga tccagcctcc 180  
 atagaatccc cacaagcaag cttccaccac aagtagtata aaacggtaag aaccgagtat 240  
 cgaactctcg gggaaacttg gttatctggc aagctatttc gataaataag cgtctggtat 300  
 ggaaatataa ctgtggttat gaacagggtat ttaaaactatc taggcaaaaa gaaagaaaat 360  
 cacgtaagag aaatactatg taaaaacaag tagagaaagc gttggtc 407

<210> 30928  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30928

agctntgcgg atttgggtctt cgccggcgaa atgatcgaag tgggtctaaa aagaggcaaa 60  
 tctgatcatc ttgctttgat aaatgcaaaa aaagactggg gcaaataag agggtgagga 120  
 tgaaggagaa cctcgtggtg tgactgcat tcctatacaa ccaagtttcc caccaacca 180  
 acaatgtcat tactcagcca ataacaaacc ttctccttac ccaccgcca gttatccaca 240  
 aaggccatcc ctaaaattaa ccacaaagcc tacctaccgc acatccaatg acaaacacca 300  
 ccttttagcat aaaccaaacc accaaccag aatgaattt tgtagcgaga aagcctgtag 360  
 aattcacccc aattccagtg tcctatggtg acttgctccc ata 403

<210> 30929  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30929

ntanagactc aatttcattt gaatgtggtt gggacatata ttgagttggtt tattaaatca 60

atatttattt ctaatttgga aaaatttagt tattcttggt caatttgaaa taataaagtt 120  
 agtctctctc gtgattcaaa tggtgtaagt tatgaattct tttatggata ttgagtgttc 180  
 ctattggaaa caattttaag tggtaaaaa cttaaaatta aatgagaatt tcatcacttt 240  
 ataacataag tgctaagtca tatctcttaa tagagaattt ggatgcttgt gttataagaa 300  
 attttggatc ctttatattg gttggacctt atagtctaca ttgagtatat aaaggcacia 360  
 taaacaaaac aaaaaaatgg aattcatgtg ctgaaagaaa taaggatgtc ctggaactaa 420  
 tacata 426

<210> 30930  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30930

agctttgttg gatttctgcc atttggtctt attttgatac ctatccatat aaaataataa 60  
 atattttagt caaaaaata tatacaagtg ctttacaaga tcgttagtgc aacatttgag 120  
 ttccatgtcc ttatttctaa aagttggatg aagaattttc cttgagaaat cgaccacccc 180  
 atgtccttat cacctttggt aaataaattt ccttttgcaa agttcttatt tctaaacttt 240  
 attctacatt ccatgtgatg aagaatttga cagtctgttt cttcggatgg ggaccatttc 300  
 acaaaactct aagctttcca gaagaatata gaaaaccacc gcataatttg ttttcataat 360  
 tatacgacct tatgatatta gtcaatgact atntaatat 399

<210> 30931  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30931

tcatgatgat gaatcaagtt gattcaagta gttttaatga tgaanaagat tatgacaaaa 60  
 agcctaaaga atgatttcaa gattaagttc aagatcaaga ttaatttcaa gattcatcaa 120  
 gaagattcaa gattcaagaa taatcaagat caagattcaa gactcaaaga ttcaagaatc 180  
 aagagaagac ttaatcaaga taagtattaa aaagtttttc aaaacattga gtagcacaag 240

aagatttcac aaaattatta ccaaagagtt ttactctctg gtaattgatt acaagaatgt 300  
 agtaatcgat taccaatggt nttacaacgt taagatnttc aaaattcaga atgaagactc 360  
 acatctgttg atgtgtaatc gattacacct 390

<210> 30932  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 30932

agcttctctt ggaccttgaa caagcaatca actcctcttt cagaaccctg ctatgtgctc 60  
 gcgactgggc cctttcttcc cttcgcaact tgagttcatt attgctaccc catagagctc 120  
 cgcgaaatth gttccggcca tactcttctt tgcgagccct cttgggtctct tgttcaaggg 180  
 ctcttgcggt aattgcattc tcttcccgta acccggcaca ctcttccga acgtgtgtag 240  
 cagccaactt gaacttctcc ttggcgagtt ttgcctttcc taactcgctt ttgagagctt 300  
 ggacttcttc gtcctcttcc ggtgcttcaa aattctcttc gctgacgact ctttaacttg 360  
 cgagccaatc taaacctcgc atgc 384

<210> 30933  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30933

gcntnnanca aatcatataa gataaatgca ttcattgcaat ctgtagatat atcctcccaa 60  
 acgtcaaatt ctccgcctat atattcaacc tttccatcac tggcacgtgg agtgaatctt 120  
 tctccatggt gcaataactaa agttatattg tcattcattc tacacaatta gaaaccgcaa 180  
 acatgggtcag atattangaa ataaaanaac ctacctcaaa aagcgcggaag acattgacat 240  
 tgtcaaaaac cgcggaagaca caatcaataa ccaaaaacat tgtcatctat aaaaacagag 300  
 catcataaac gaacatatta accgatcata aacctcccta 340

<210> 30934  
 <211> 396  
 <212> DNA



<213> Glycine max

<400> 30934

agcttggttaa tccatggaag ctccataat ctcccacact ttttggggtg ggtcattctt 60  
ggatggcctt gattttctca ggttccactt ggaacccatt tctaccaact aaaaaaccta 120  
agaaaactat attatctaca caaaaggtag acttctctat atttgcatag aggggtgtttt 180  
tcctaaggat tgaaagaact tgcttgagat gtcctaagtg atcatctagg ctctactgt 240  
aactaaaat atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttaagacat 300  
aatgcataag cctcataaag gtgcttggtg cattagttag cccaaaaggc atcactagcc 360  
attcatacaa accaaaacttg gtcttgaaag cgtttt 396

<210> 30935

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30935

ctggggaata atatttaaca actggagtag tgaacttaac ccacaacaag tttctagcta 60  
tatgaactaa tatatgtgtc acttctaag tttctatggc tggtagtttt aggtaaagac 120  
tggaagacc agcttgagc aaatatcaag agtttattgg aatcaggtaa gctaaaagct 180  
aatagtcttg gccattctt tttcttatcc atgcacctt atgtactga gaatccctaa 240  
acatacatgn taacaataat tttccccata tgtaaaataa cttgacaccc tcgaacttct 300  
canagtcatt ccaatttcta ttcgattcgc cattgttact ggtattntct acagattatg 360  
ctcctgtcag tgttttgtac catcaattgt 390

<210> 30936

<211> 584

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30936

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gttttaccac tacacaccna nccccacgaa gcacatttga agcccttgag nccntngtga 120

aaaccagtca agaacacgag gaacctcgan agacgacctg caagcatagc agattgtata 180  
 ggaagttata caggctgaca agagagaggg acacgaacgg aactttgaat agcatctcag 240  
 agacattctt cacaaagtac aacaagcgct acacacgctt ctagttataa acaaggaaac 300  
 acccctgaca atcctactga agaaaactct ctagagaagc attatttgaa tgccagagct 360  
 ctacgacaca cacaccatct aaaactaagc tcacctccat gagaagctag agccaatcta 420  
 cacacacccc gttaaataac taagactcac cttccttaag agagagcaag cgtagagcat 480  
 taactaccac accctctatc atcagctaca gtcaccctc catgacagaa aaccatgata 540  
 agtcactaaa aaaatcctac tactaagaac actcacaagc tccg 584

<210> 30937  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 30937

catcactcga cccggatcct tagagtcacc ggggctcagc tttcttaacg gctgaatctc 60  
 tccttaggct tatgttacta tttttatggt tcatttcttc ctgaggttg ctgagccata 120  
 gatctgaatg aagagacact agtgattcat gtatcctttg tctccttttc cttttctcca 180  
 agacctacag cgtgtcaaga aggatataaa agagaaaata ttggcttctt ttggctatat 240  
 gtattcctta gttagtgtt cctaccttat catgtgattc tagatcactg tgaaatgaat 300  
 agaaggacac ctattgaatc atattttgaa tactagatca attctgctct gtctgtatat 360  
 attgtggcat acgaaattat ctattgtgga atttccacaa agccttggtg ggatc 415

<210> 30938  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30938

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 tntagggatg ttcaagggtg agaaggaaaa tgaaaatggg gtaaatnng agcaaactct 120  
 cacctcaaaa aagtctatat catcaatcta aacttgctca aactggtttt accaagaana 180  
 ctctaccgaa tcaaaagttg actcctcaac acccatattt taccctagaa atggctcttg 240

cctttacttt ggtcatttgt ttttctctct tgcactgccc aagctttctc ataagtccta 300  
 tatgacattt caaactatga ttacttact ataacctgta ttaccactg aatccattg 360  
 tatgctcca actctcagag cctcactctg tttctactca taacactaca ttctca 416

<210> 30939  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<400> 30939

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 ggtgcacaac aagttgtcca cattcacaaa tcgcgcataa aaccacccat cccctgggtgc 120  
 ccacctccaa ctgagcttac gtacttccac gtagcccata tccttgtttc tctcaacacc 180  
 gggtgcccat caatcctccc aagcttccca acattcaggc tattcaacat tcccatcatc 240  
 acaaacttac 250

<210> 30940  
 <211> 486  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30940

ggggaatttg aaaccctggt agagaccgta gctagcncag agccacaaga tcatactcgg 60  
 gcttctccga tcggcatgga aactgacagt ttcatgacaa tatctaaca gctcgcccaa 120  
 agacggggct tacgattggt ggcacgcacc atatgatatt gaacacacac tccttccttc 180  
 ccagctatct ctcttataaa ctctctagct tgtacactaa tactccgata tctagtctga 240  
 acctaaccat gatcatttgg ttgacaacct ccacaacttt tacgtgggtca tagacatact 300  
 tctctttgag catcaaatag cactgctctt ttctgatagc cttcaccaat cacatataat 360  
 tatttttatc agcaactctc ttattgcacc atacttgccg gatctacact atgctgttct 420  
 ccacctctga aacatatact cctcgaatcg cagatagcat gctaccacga ttctaacaga 480  
 accccg 486

<210> 30941

[illegible]

ctgggttttct gcaaaaaaac tctctgaatt acatgatcaa gagtatgtat atactctagc 300  
 tggtagctct aggcacaaag gctatacttt ggtgccaaga ccaattcagt tatgacaact 360  
 gaattca 367

<210> 30944  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 30944

agcttcttag tttcagatga tgcagatggg tttgtagcta cctcatgcac tectctaattg 60  
 actatggcat catttctggc gctaaactgc tgggagttgg aggccatctt ctcaattaaa 120  
 tttctggctt cagtaggagt catgtctcca agggctccac cactggcagc atctatcata 180  
 cttctctcca tattactgag tccttcataa aaatattgga gaagaagctg ttctgaaatc 240  
 tgatggtggg ggcaactggc acatagtttc ttaaattctt cccagtactc atacaggctc 300  
 tctccactga gttgtctaata acctgagata tcttctctga tggctgtggt cctggaagca 360  
 gggaaaattt tttctaagaa tactctctt 389

<210> 30945  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30945

ggaagctcaa ggaagagctn gaagaagttt tggctattac ttgcccact cttttgagtg 60  
 acatttgtat tggttgttat cttgattgat gcatcttagt acatttgata tctgctttgc 120  
 atcctgcac atcatgggta gcatcgagaa aagtttctaa gttaagaaaa tttcttcaga 180  
 ggtaaaactc tctatttaata cgatacagag gtgtcggaat cgattcaaca agctgggtga 240  
 agcttaaaga gttaagtctc atatcggttt aatccgatac aatagtactt taattgattt 300  
 cactgctgtt agaccatgac tgatctttnt caggagtctc aactttaatc aattaccagt 360  
 ggattaatcg attacttctc tctcgttcaa gtgttcaaag gtgaactata acactttaat 420  
 cgattatat 429

<210> 30946  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30946

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 attctaagag agcacaagtc ctagactaat cccaatgac ttttcttggt ttgtacaaat 120  
 agccttctca ctattgcctt ttcttaagtt gcttttgacc ttattgtaac aacataactt 180  
 attttctctc tttttttaca ttcaacttat ttgatgtgtg tcttgatgct taactttttt 240  
 cttttcattc ttttcaactt ttctcccca aatttagagt aaatatgcct tgaacaatat 300  
 gctctcctag aatctaaaca aggtattagg agataatcat gtaaagttca gggttcaatt 360  
 catgacaaat caataagctn tataacaacgc agcaaaagat 400

<210> 30947  
 <211> 90  
 <212> DNA  
 <213> Glycine max

<400> 30947

agtacgtgaa ggaactcttg aaaaatttta gatggacgat gcaaatatat gaaactctat 60  
 acatccacca ctatattaga ctagatatga 90

<210> 30948  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30948

agcttggtgct gtatgggctg atcaatgttt tgacaaagta atagggatag aggttttaga 60  
 tgaattgata atttggtgtg taattgaagg ctcttgagtt ctgtaactcc tgttggtgaga 120  
 ggtaatggga gcacaggata tatgtatata aaggcaagtt gtgtgggcct acgggaagta 180  
 tgattttttg tcgggataga aattggaagg ggatacattt gtaggtttgg gttattcttg 240  
 tttatgcac acttgacaaa acacctataa cctgacactt ttatgtgtgt acaagttctt 300  
 aatggattcc anacatccat gatgatatga aaataagttg aattatttat ccagaagatt 360

gtgaaagatg tttccctgac aatattcttg ttattggttt

400

<210> 30949  
<211> 429  
<212> DNA  
<213> Glycine max

<400> 30949

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cctatttttta atggcatggg ttaccattat tggaaaaccc gcatgcaaatt ttgtatagag 120  
gctatagatt tgaatatctg ggaagccaca gaaattaggt cctacattcc cactatgggt 180  
gcaggaaata cacccataga aaaacctagg gaagaatgga gtgaggagga aaagaaatta 240  
gtttaatata atttaaaatt caaaaatata attacatatg ctttaggaat ggatgaatac 300  
tttagggat caaattataa aaatgcaaaa gatatgtggg ataccctaca ggtaacacat 360  
gaagatacaa catatgtaaa aagatctagg ataaatacat tgacacatga atatgaatta 420  
tttagaatg 429

<210> 30950  
<211> 403  
<212> DNA  
<213> Glycine max

<400> 30950

agcttaatcc cttgataatt gagggtagga gatttgcctt ggattcagct agggactact 60  
ttccttagca cccttatgtt caatatgttg gataaataaa aatagttttt ttttgctata 120  
tgcatgataa tttcgatgct agttatcaca caaatgtatt atacataagt acctatcaca 180  
taaagagtgg ctatgcaatt tagaatgcat caagaagttt tagattacgt ggctacattc 240  
tttggaaacca aaggcatcgc atggaaaaat tactacatac ccatatctaa tgggaatttc 300  
tattttccta cttggctttt gtgaggggaga tgtcaccaca cgttatgcag gatgggtggaa 360  
gcagtcaata ttgtatcatc atcgtgattt tgcaaaaaat att 403

<210> 30951  
<211> 412  
<212> DNA  
<213> Glycine max

<400> 30951

agttgggggc acttataatt taactcattg atttgtcaag aaaactattg gaaaaacgag 60  
agtggtgaat gatttttggg ttttgtcttg tatgaacatc ctatagtaaa atttacattt 120  
ctctctatat gattaacttt ggattttgag tcatacctta tccaaaacta ggcatacatg 180  
actttttata ctggtaaagt ttataaaatt ttgttatatg ataagtataa gttatgcaat 240  
agttttataa gtactctata gaaggaaaaa aatgtaaact tgagttttaa tataaatttt 300  
taatcagata aatatattta tgtataaatt tggtttgggt tggattagat tgaattttta 360  
aatgaaatcc aaaatctgat tctatccaaa acatatgagt ttgttaaatt tt 412

<210> 30952

<211> 399

<212> DNA

<213> Glycine max

<400> 30952

agctttgaga aacaagtgat catccattgg caagtgatca tccattggca tcatcaaaac 60  
attcagcttg atccattatc tacattatgt tgacaccaga gccatcgcca actaattact 120  
aatcagtacc atgataggga ttgttacagc gtagattttt gcacaatagt ccatgatcca 180  
gttattttgc aacggaataa ggtgtggtct tggcatgatg agtactaggt ccacttggac 240  
attttggata gccatgaagt ttatagcaaa ccatggcagt gttccctagt ttctcatagt 300  
attgacaaat aacattcttt gttatgcctg aaaatatgga tctgccatat gttgaagtgg 360  
tttgtaaac atccgcaaga ccatgttttg atagtatgg 399

<210> 30953

<211> 153

<212> DNA

<213> Glycine max

<400> 30953

tatgttaatg ggtcttaaga ggaaagctca ctaacacaca ctcaaactta cttattaaac 60  
atgctcatga aaactatttt ttctcaatta aaataaatcc cttttatttt cctacaccaa 120  
taacccaaac tagaattaat taattaatta att 153

0044106-101500



<210> 30954  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 30954

agctttttaa attttgaaat aaaatgtgaa aaactaatat attagaaata agatttgcta 60  
 aaaaaagata aaaaaaaac aattagatct taaaaaatga acattaaaaa taggtacaga 120  
 agaagaagaa gaagcatctt caagaaaaaa aatacatcag catcttcact cactcaccac 180  
 gaaggttccg ttctctgtga atctatatat ttctagggca cgttacgtgg aacgaagctc 240  
 ttcactgaat tcaatcgaag aagaagaaga agatggattg cgttgctggt tcgagtttgt 300  
 ttccgttgca tcgttgcaaa accattcacc tggttggtaa tattcactct cccctcttca 360  
 actcaccaca cacacaacac aattatctca ttcgca 396

<210> 30955  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30955

tgcacacaag tttctccttg cctagcactt canaaccttc tggttgggtc atataaatgt 60  
 cttcctctaa atcccatgc aagaatgcag ttntaacatc taactattcc aagtgaagat 120  
 tctttgtagc tacaatgctt agaataactc tgatggtagt catctttaca attggagaga 180  
 aaatctctat gaaatcaatt ccttggtttt gctgaaatcc tttcaccata agtctcgctt 240  
 tgtatcttct tctaccatca aattcttctt ttagcctata gaccactta ttctgtaaag 300  
 ctttctttcc ttctagcaat ttaattaaag accacatctt attcttctga agggatgtca 360  
 tctcatcttt ca 372

<210> 30956  
 <211> 303  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30956

agcttttctg caactttctt ccattgatct gggttgatct taacaccgac taacctacct 60

0943406-40459

gaaattatca gccacatatg ccacggtggt gccctagtgt cttgagaatc atgacttata 120  
 gcatgatcca gtatgccctt atagtagatc gagctcttag cggatggact aattgtcact 180  
 aagatacttt aagtctatac tcacacctta cccaagagat gaaaaccttt agttaccatt 240  
 caaaaggagg ccatctgcta caatgtntat atatacatca tgtacctgat gttctacagt 300  
 tga 303

<210> 30957  
 <211> 419  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30957

ccagttctgc gcaagctgcg agaattttac ggtggtcttc tgatagcacc ctgatgtact 60  
 atggcagtg ctcctgtata gcttgccctac ctatccgcc cgctgagctc tgtagagaca 120  
 ctgggtggtg agcagctttc tactatgcgg cactactatc agttgcgaac ctatcgcaaa 180  
 cgtggagagg aacatgactg aaatcgtgcc gtaatcacgt ggtcataaac catcactcga 240  
 aaagaggagc tatgcgcagg atcctctgtc tcatccgaaa ttgtccgacg gatgcgctgg 300  
 gataaggaca ttgtcgactg ctngtcacac gagctatgta gtagcgcaca taacagggtga 360  
 gccgtgcatg gattggtcca caagatgctt tcgagaattt gactgcctga acgcagacg 419

<210> 30958  
 <211> 310  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30958

aaagttcccg atcaaagatc ggaagaaagc aaaagaagaa aatttccgac caaagattgg 60  
 aagaaagcca aaccgaaaag aaaagaaaat tcccgatcaa agatcggaag aaaatgaaag 120  
 aaatatgcag aaaggtcttt ggaccaggca atatctgaac aatacagaat tgtcaccccc 180  
 aaataaggaa ataaaggaaa ccacgaccgg aagtggctct ctccctttga tcgccaacca 240  
 aaatcctgtg cgctagcgac tttctcacc cgactaaac anaaacagaa aaagaaaaga 300  
 cccaaacact 310

<210> 30959  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30959

tctcaaggaa gttntcttaa gaaagcttct caaggaagct acctagtcta taaatagaag 60  
 catgtgtaac acttggtgaa actttgatga aggagagtct tgtgagacat aactcaaagt 120  
 tcaacttctc tccctttttc ttccttcaat ttcgtgctcc cccctctctc tttctctccc 180  
 tctttctttt cctccattga agcctcctct ccaagcttct tatccaaggc tcactcttgg 240  
 ggtgaatctc cttcttccat ggcttattcc ctagtggatg ggcctcctc tcacctcttc 300  
 tcctttgtct tccgcttcat ctctatggtg gaaaaccacc attaaaggac ctcatgaag 360  
 ctcanagatc cagcctccat agaagctcca caagcaagct tccatcaagt ggtatc 416

<210> 30960  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 30960

agcttatgca tggattatgt aattatgaaa ttgagatgcc cgaagaaaca ccatttccta 60  
 gctaaccatg cattaggtac catgttcaat tattttgttt ttgagtgaac cggttttatg 120  
 atcccaacat ggttggtctg tgggtgcctaa cacatgaaac taagaatgta gtgtgaagtt 180  
 tcacgcttcc cctttttttg tttttgttat gtagaggaaa acgcaaggat gagcacacat 240  
 gaaaacaaat ggtatgcaat tttgcagatc aaaaagtttg ttgaacgcat atgcatgatg 300  
 atgccatgac tcatgcaaaa tgtgaggctg gaatatgata acggacaaat gcaggatatg 360  
 tccattatga tgttatgaag agatgcttat gcg 393

<210> 30961  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 30961

tatgctacaa acatttataa tagaccctct cagtagcatt accaacaaca gcagaataat 60  
 tatgatcttt caagcaacag atataatcta ggttggaaga atcatccaaa tctgagatgg 120  
 gcaagtcctc cacaataaca acagcctatc cctcctttcc agaatgttgt tggccaagc 180  
 aagccatattg ttctctctcc aatgcagcag cagacaacaa gcagctgagg ccccttctca 240  
 accttctctg gaggagtttag tgaggcaaatt gaccatctag aatatgcaat ttcagcaaga 300  
 gacaagagcc tccattcaga gtctaacaaa tcagatgggg atgatggcta ctcagttgaa 360  
 ccaagcttag tcccaaaatt ctgacaaatt tccttcacaa act 403

<210> 30962  
 <211> 383  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30962

agcttacatc acttggaag ataaagatat agattcatca ggagattcag aaaatgaagt 60  
 cgtgaatctg agtctcatgg ccaaaaacta tgatagcgaa gaagaggtaa catcttctaa 120  
 caataaccta tctatttctt ttgatgaact tcaagatgaa tttaatgact tgcataaaga 180  
 atcagtcaaa cttgccaac tagtttcagt ttctaagaaa ataatttcaa atttagaaaa 240  
 agaagttatg aaattaaata tagaattaga aaatcttaat actgaagtca aaacattaaa 300  
 acaaattgat agaaatcaat cttctaccat accagatatt aataaagtat ctcactcatg 360  
 tanatgttgt gataaattta aag 383

<210> 30963  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <400> 30963

tcctcggggc cattcctgcg aaggcaaaca tttggaaagt tagttttacc agtgggacgt 60  
 tactctttta agcaaaaatg gaatataacc tcctcccata aatacaacaa tcaatgtaaa 120  
 tttagagtaa gcttatgctc atacttctt acaaatgttc tcttgcacaa gacattctat 180  
 taaccgaaaa aatgcaccca tatacaatca aggagctcc gttacctaga ttatttacac 240  
 gtacttccaa ggtgtatttg ttacttacat cccacacatc tccttggtta aattcacata 300

catgcatacc caaagcattt tggggtacca aaaattgcac atgtacacct ctggtattt 360  
ctaataccta tacatacaca aactttatga tgaatcttga ctatctacac aat 413

<210> 30964  
<211> 319  
<212> DNA  
<213> Glycine max

<400> 30964  
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ttagagttta tctcttttat cttagtgaga gtgattctcc tagattcttg agtgattcaa 120  
gaacaccctg gctgtatcaa aggactttca caacctttgt gtgttgccct cgctggaaag 180  
agtgattctt tccttccaat catctccacc cttggtcttt caaaccacaa ttccagaaaa 240  
tccacctctg cccaaaatta tctcgtgaaa ggtctcgttc tgaaattcat tttagctca 300  
cgaatcactt actttgagt 319

<210> 30965  
<211> 339  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30965

tatgaccatt cgaatttctc gagagtttcc gttgttcaat ttcgagcgtg tagatgagtt 60  
atgtccccga atcgacatc tgtgtgaaaa gttatgacca ttcgatttct tcgagagctt 120  
cgtttgttca atttcgagcg tctcgatata ttatgacccc gaatcggaca tctgtgtgaa 180  
aacgtatgac cattcgattc tctcgagagc ttccgttgat caatttcgag cgtctagatg 240  
agttatgttc ccgaatcgga cattcgagtg aaaacttatg accattcgaa tttctcgaga 300  
gcttnnctg gtcaatttct gagcgtctcg atatataat 339

<210> 30966  
<211> 400  
<212> DNA  
<213> Glycine max

<400> 30966

09440E-10400

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gaccattggt cttccttccc gcaatgcttc tcttcattgc tgcttgagtg ggcttatagc 120  
ctaaaccata cttcccacga tttccttgag tatttatcag gctagtattg cgcgcgttgt 180  
tttttctaa acccatcccc ggttcaaaac cgttcccaa cataactcgg gccatcatta 240  
ccgctgcac ggacagacaa agttgcccaa agaggagtc cacggaggaa atgctgacca 300  
cctcaaaaga ctggaaagca gtttctaacg attcttctgc ggcttcaca taaggcatgg 360  
aggatgggca gcttaccaag atatcttct cgcctgacac 400

<210> 30967  
<211> 296  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30967

ntgaggggtgc gtagccacc atctnttcat agtagagtat cgataatgtg tctaccatca 60  
cgatcatcgt ctccctttcc atcattgggg gtaccacctg tgccgtcaga tccctccacc 120  
ttttgggcgt gttctttgaa agatccgtac cccttattgt aaatgttatg tagttgcac 180  
ctatacgga ccatatccga attgtactga tactgactaa caaaggcaac cattatgtcc 240  
atacaataat ggactcttga aaagtgaag ttagtgtacc atgtaacagc tacccc 296

<210> 30968  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 30968  
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gggtagataa ggaattgggtg cccaatcgtg aattctgtaa agccaactac cccatcaaac 120  
accttatgta tacctgtaag catttgatc tctattgcct cttcaacaac tgtatgatct 180  
gtgagaatta tatatgacac caattctcta cccggtaac tcagtaatat ctttctactc 240  
cctatatgta tctaccctta aatgacctaa attccatcgg ctatttatta aaaccgatcc 300  
tttctggaag gttattctcc ctctttaaca caatcggcat tccctccccg catttaatac 360  
cataatcctc gaccg 375

<210> 30969  
 <211> 151  
 <212> DNA  
 <213> Glycine max

<400> 30969

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 taggcgagtt atattttgat agatctgatt ccgagagtca tatgtgtatg atgtgactta 120  
 gagtcgtcta cctatcaata gcgtctctaa g 151

<210> 30970  
 <211> 114  
 <212> DNA  
 <213> Glycine max

<400> 30970

tagcatgtac tatgatcttt gttggcgttc atgaagacca ttgtccgaaa gtagtttagca 60  
 ttgaaaaacc tcgaaaccat agcattgggg tgagaaataa acctccaccc ttgt 114

<210> 30971  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<400> 30971

gctaagtgct gagttgagcg atagtgtttt atccttgttt gttcgggctc gttgaagcct 60  
 tatctatcat tcccgacatg ttgacaacct gtcgagagct aatagagtat gctggacata 120  
 aatatttgct tacaatgtcc aatgcaatcg cgccttgccc ataatgtggc gtatctataa 180  
 tctaatatct gccaatacat aacatatttg aatacattgg aatattagtc caattataga 240  
 ctatctgttt ggagggggagc ccggctacta acggtcacac tttcactttc ctataacaga 300  
 ccagacccgc aagattgaca 320

<210> 30972  
 <211> 565  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

004406 101500

<400> 30972

ctgccacaca ccntggtaca tcnntataac atatatgatc atataataat tagcacaccn 60  
cacaccctnn tnnncnncccc caccagnaca gcnnccttga aaccctgttg anacctagc 120  
tannacngna cactatngaa tactgaagct taacaagntc atctatggat tgaaacaatc 180  
ctcccgcta ttggtattac aatatccaga aggcatcttc tcattcagcg ttgaagagaa 240  
tgtcccgat cactggttaa accacaaggg cagcgggaga aagaatcgtc tccttgatt 300  
atacatacca tgatatctta ctgcgacta atgataaggg aatgctatat gaggcgaaac 360  
aatctctctc aaagaactgt gataagaaat atatgggaga ggcaatttac gcataggcaa 420  
aatactcata acaaagaact cgaagcattg tatggtgtgc cacagaacct atatcaacaa 480  
ggttacagag aatacaaaga aagattgtca ccaagtgaac ctccaatgga aggtgacaac 540  
ttcgttgaag catgccata atgaa 565

<210> 30973  
<211> 294  
<212> DNA  
<213> Glycine max

<400> 30973

acttatcaca cggaagtccg attggagtgc ataatatatc gagaccctca atattgcaaa 60  
aggtagtcct aatgaaagat aaatggggat aactttttta acggaagtct caattcaagt 120  
gcatacaata ttcggaagct cgaaaatgaa caatggatgc ttctcgagaaa attaaatgg 180  
cataacttat cacacggaag tccgatttag ggcataata taccgagacg ctcatattg 240  
caactcgga gcaactcaaga aattcatgtg gtgataactt atcacacgga agtc 294

<210> 30974  
<211> 563  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30974

accaccacc cactgcactc acctaatata gctgacatgt tgcacaatcg tacataataa 60  
cacaaaaacn naaaaanaaaa aacgagnnac attgaagcca ttggaagcca tgtagaatcc 120  
atggccaaca cnagctcnac acccgagaa ccacctgagg cgacctgcag gcatgctagc 180



atttgtgagc tttttaagtc tcagagaaac gagacaacgt gataccttac gacaggaact 240  
 ccgaaatact aatgagaact aggagtatca cctatccac aacgacgagg tggaaggcat 300  
 ggccagcgaa gtaccacat acacagtagg agaacagaaa ctagtcatgt actcaacagc 360  
 tataatctat gaacaccata ttatcccgta tacacggccc agtacgctgg aacggacaca 420  
 caagcacaag caaacatcac gtgtgtcagc taacaacaac taaaacagtg ttagactaga 480  
 taagcacatg agagagacat gaatggaaaa gaagaccaac gccataaacc ctgagtgtaa 540  
 gaaattagac aaaatgacga acc 563

<210> 30975  
 <211> 521  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30975

nggatgccct ttgtgatact tatttgaaac ccatgggtcaa gcncncnagn ggaactctat 60  
 aatagttgac acttcacagc atgcaaagct ttcttgtcta tattgtataa antatttatt 120  
 cttttgagc atcatctgac ctcaatggca tatactctta ttactgaata tcccacgtcc 180  
 tactcggttaa tcaagctatt cgctcaacac ttaatgtcac tatcttctga tatctgaatt 240  
 tctcactcac tgtaatttga tgatcacgca tctagtgcac cgaatttctc atcaacaata 300  
 cgtgtcctgg ctgccactat tatgtagata agatgctcat gtcaggcttc tcgagttaat 360  
 gtactatatg ctcccatctc ccccgagttc caaagatcaa ccatctcacc cccgcttact 420  
 ttgttatctt tggacttgac attctcaact cactgcacga agtacacacg atcatcctat 480  
 ttctagtttt tgcttaccta tgccctactt attgtaccac g 521

<210> 30976  
 <211> 287  
 <212> DNA  
 <213> Glycine max  
 <400> 30976

taatacatgc aattcatatg atgaaaacat ttatatcact aaaatctata gtaactaatt 60  
 aatttaattc tatacattat tacatagacg gaacgtttat accatgcac aactaaataa 120





tgtgtcattt tcttaatcag aaaatggagg catgcatact tcaagtttct ttatgacttg 240  
aaagaccaac tttatgtcat ggtggccatc aaaatgaatt cttttcgttg aggtcggaca 300  
caaccatact ggtaagtaaa acctttgatt agttgaaatt tcngttttta ttatacaaga 360  
taaacaataga ccatatttta acat 384

<210> 30982  
<211> 268  
<212> DNA  
<213> Glycine max

<400> 30982

agcttattca gattctgttt tacatattcg agaattacta ccgggcaacg tgaaagtctt 60  
aattcagtgga aaaaatctcc ctcccagtga acatagttgg gaatctgcgg ctaaatgaca 120  
ataggttatt ccgacttacc accttgagga ctatgtgagc cttttaggcg gaggtattga 180  
ttagaataag cataatccac acatcaccaa tgtgtacacc cgcataaatc ccatgggtgtg 240  
caaaccaccc aacatttaca acccaccc 268

<210> 30983  
<211> 426  
<212> DNA  
<213> Glycine max

<400> 30983

taggagtga ccattaaggc attgaccaac agtatgccat cttcttcaca gtgatattga 60  
gggggaaaga gagtgtgcgt taattaaatg ttttgaagtt ataaaccag ttacatgtc 120  
tctcattata tcggttgagc tatcttaaaa gaattgaaga tgttttaaac tacacaacga 180  
gacatctttt ttttcatttc tataaattat accaatcgcc attgtaatat caagtttatc 240  
aagtgatctt actaagattt tgtaaaaaat aatcccacat cgagtaattg atgaacatga 300  
taagtgccta tatagctagg tagaccaccc ccttatgaac cggtttttaa ggtgaccttt 360  
cggatgcctt tgctacacta taaaatctga tatggtatca gagccatatt caacagccct 420  
gactcg 426

<210> 30984  
<211> 400  
<212> DNA

00413105-10159

<213> Glycine max

<223> unsure at all n locations

<400> 30984

agcttgtaac tcataattnt tagttgaaat tgtcaatttt acacatgcaa tcttaattct 60  
caacacactn tttggatgag tcttccaagg attgtgttgc cttctctaac tnttcttct 120  
tttccagcga taaggtaaag ctacaaaatt gagtcttcca atgtttgata taagttttgc 180  
aagaccatct ttaattcgaa taagtggctt aaagggtgaa atgcacagtc cttccaagcg 240  
agcaactcan aggtgtaaca ccatcttaga atttcgtatg agcatcttca atgaaaatgg 300  
aagacttgaa cgaaaatggg tggcttgctc ctcatgttgc tgggaataga taaggatcta 360  
tataatgagc acaatgtatg aaggatggaa naacttcaat 400

<210> 30985

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30985

tgtgcatcca ataccctgat gaggatgtcc catatgttct taaaactgga ctaattcatt 60  
tgcttccaaa gtttcatggc cttgtaggtg aagaccgcga caaacatttg aaggaatttc 120  
atattgtctg ctccaccatg aaacccccag atgtccaaga ggaccacata tttctgaagg 180  
cttttctca ttcattagag ggagtggcaa aggactggct gtattacctt gctccaaggt 240  
ccatcacgag ctgggatgac cttaagagag tattcttaga aaaaattttc cctgcttcca 300  
ggaccacagc catcaggaag gatattctcag gtattagaca actcagtgga gagagcctgt 360  
atgagtactg ngagagattt aagaaactat gtgccagttg cctcaccat cagaattcag 420  
aacagcttct tct 433

<210> 30986

<211> 397

<212> DNA

<213> Glycine max

<400> 30986

agcttgatt atagttaaga gtcacgagt cactatacca ttaactatga aaaaaagtaa 60

tgcctctttt gctttaatcc attatgacgt atggcggtcca tccccaaaat cttctatata 120  
 tgggtataga tggatagcga tatttgttga tgattgcact ccaacgacac gtattgactt 180  
 gatgaaacaa ggatatgatg tggtagacat acttgaacaa tctcatacta tgattcaaac 240  
 tcaatattca aagaagacta cgatccttcg ctctgatacc atgtataact gatatgatat 300  
 ttgcatatat ctcaatcgca tcttacaac ggaaatatgt tatatgtata tacacagaca 360  
 accctatgtc taattataac tagatcacga taattat 397

<210> 30987  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30987

tttctttctt ttgaggatga gaccagtctt tatccccaaa tacatggggtt ttattttctaa 60  
 tatcaaccca actataacct ggctacttgt tcatgttgct aattttttatc atcttcctca 120  
 aacttcgtac atcttcccat tgctactctt ttgcgtaaat atttgaaagc caaacatgag 180  
 ccacactatt tttaggttca gccttcatca atttgtctgc tgcaagattg gccctttcca 240  
 tgtcccatg aatttttaca gccccaagaa aagaacacca gccaaagaca tgttatttat 300  
 aaagtcttct gcttctttta gctttccagc tctacctagc aaatcaatag cacaactgta 360  
 atgctcttct ntagggacta ccccataaat cttttcatgg aattaaagta gttatacccg 420  
 tctcaacca t 431

<210> 30988  
 <211> 568  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30988

cacttcccca catactccat taacactatt ntacaacata tagtgtntac ttacacgaca 60  
 cattatattt atcanncccc nagaggggtt tgaagcattg angccatgga naacnaggnn 120  
 agacnagggtg atcctctaga gatcacctga gagcatgctc acgtgttttc gctattgtga 180  
 ttcaaaaaga cccgcgcac tccgcacgag cagcgaactt cataataagc ttacagacgg 240

agcacttaac agactaagca ctagggtcaac agaaaaacta ctacaaagaa atagagtcga	300
acatgattag gatcaggatc atgcaccaat tcgacccaag aatcaaagaa taggcctaaa	360
atgacaataa tcgccgaaca aagtgaacta caattcactt aacgcggaaa taaaaggctg	420
caacatactt gcaacaattt gcgacgatta ctatgagtga gaaagactct aacaggatag	480
ggagtatgtg atgcacactt atatatattg cgcactttca gaagatgaat catgggtggg	540
agaacttaaa aggaaggtca gcaccccg	568

<210>	30989
<211>	384
<212>	DNA
<213>	Glycine max

ntgagtccaa cattcagttt tatacctgtc gtcatacttt attttncgcc ggcgaccttt	60
gcttgatgac atgcgacctt tctttgggtcc ttgtgaggtg cttggcaccc atcattaggc	120
aatttgtgaa attccaggac atgccagaaa accaaaaaat attgatgcac aatccgtaag	180
tttccgtgac acaccgaaa tcaaatggaa gcatcgttgc ataattaagt gagattccgt	240
aacattccgt aagtcaaaaa ggggatgatt atgtaattcg caaggttccg taacattacg	300
gaaagaaaac aagtatcggt acgagaatcg taagtttccg taactttacg aacaaagact	360
caccaaaaaa ggaagggggg gaac	384

<210>	30990
<211>	232
<212>	DNA
<213>	Glycine max

<400>	30990
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tcggtttaca catcgactac gcacgatac catacctcta tacactggcg gatgacgcga 120  
ggtaattacc cttctacgct cattgatttc agaaaagact tcacgatcta gacgaacctt 180  
ggcattgccg acttttcttc ttgtcaacc actgccatct tactccaccg tt 232

<210>	30991
<211>	392

<212> DNA  
<213> Glycine max

<400> 30991

taagcttgta taaattcttg tgatgaagca catttttgaa tccatctcta ttatcaaata 60  
aataaaggct gaagcacagt gcttcatgat atttcaaat catggagaat caaactttcc 120  
atgatgacca tttgaacaac tatatttctt tggataaaac tttttgcact aacagattag 180  
tcacttaaaa gtatgatgga ccaattggca gcagatccag tcaaatgtgg aaatacttat 240  
ccaatacctg ccataacttt aaaattatat acagatcatc actggtgttc tcccaaacc 300  
gtgcatttcc aattgcaaaa caaccacatg gcgatctaaa aggatttgag tccagaggag 360  
ctgcatcatt atacacaatc acatacatca tg 392

<210> 30992  
<211> 563  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30992

ccctccgtca tctcgacat ctnatacat anagaaagac tagangtata nancgctcta 60  
tagatgaagt acacttaaga aancnnnaaa ccagaggcaa cggtgaacc tttgangccc 120  
atgtgcanc ccaggcgata ccagctcgac acccgagat cctctacacg catccgcacg 180  
cttgcaant agtatgaaca tggatataggc catctagaac gtgccaacgc atgccatata 240  
cacgctgttt cgcttacgaa tcaatagcca gaagaggata aagcaccgaa atgaacaatc 300  
tgaaacataa agtcactgaa ccaaaataga tacctacaca aatgggacaa cgcaaagcta 360  
tcaactgccag actgagaagc aatgtttgat aggaggctac atacatacgt tttgctctta 420  
ccactcaaac tgaactaaat caccaatctt ttctatgact cacgcccac tacataatca 480  
aaaacttaaa cgcacacac ctgcctccgc atgactcaac gttcatagct aaacaaagaa 540  
ctatcatcgt ccaattaata acc 563

<210> 30993  
<211> 83  
<212> DNA  
<213> Glycine max



<400> 30993

gtggaactgt tcctcaaggg attaaaggaa gagattatca ctaacgtgag gtttcatgaa 60  
ccatagaact agatggaagc tat 83

<210> 30994

<211> 368

<212> DNA

<213> Glycine max

<400> 30994

agctttcatc tagcctatat tatacaaaag tggtacaaca gaacctaacg gtatctaatt 60  
atatggggcca tcaaattctat catgtgttga cagtaattga ttagcccatg aatttctctg 120  
ggggctgtac acacttcaac gatggctttt gctttggcta atagtcgcgg gaggtcttga 180  
cttccattca aggtcaaggc gaacctatcc atccacatag tcgcttcttg atgcaatgca 240  
tcaatcacct cctctcttgc tctttttcgg tgtacacttg tgcaaatcc tctattagct 300  
tttgttcatg ggtcatagac tgggtcaact ctcccttgta ctgcctatg atagctagca 360  
tgctttgc 368

<210> 30995

<211> 387

<212> DNA

<213> Glycine max

<400> 30995

tcaaagatga ggtcaaaggc tacattctgt gtcaaatacc tgtgtcttaa cattaagggc 60  
tgatgggtat ttcgggttct ataaaaaaga cacatatttt tgagattccg atcacgcaa 120  
tgtgaccggg gttcggtgaa tgccgtaaaa acaatctcaa tggtataaaa agataactct 180  
taaaatgtct cattctctat ggttattcaa aggaagtgtg tgatcacccg attacagtac 240  
cctgcacata gaatacacta tgaggagctc aaactagtta cgagaatgct tagaactcaa 300  
ggctacctca gggaaacttt gaaatggagg attctgagga ttatctccat ggaatcttct 360  
aggaggattc tgaggatttc actctga 387

<210> 30996

<211> 383

<212> DNA

<213> Glycine max

<400> 30996

agcttgattg caagttgctt tgtctatatg catcttaatt cttctagatc ccatacctacc 60  
attacaccaa gtgagactag atccccttga acagaggtgg gtgagatcat tctagacaga 120  
ccaattggaa aaatcttcac aagattgctt gaggggaagg tagccaccaa ttctttcatg 180  
tgcccctgaa accgcattga aatcaccaat gtaaacccaa ggtccaagga agttgatcag 240  
catagaagag agtcatgcc ataagattgc tcttttaatg ttggaggtgg aaccataaat 300  
agtagctaca taacatgaaa tgttgtaaat agaaactaca aaagacatgc tttgatcaga 360  
gatagctaac atagacaagg aag 383

<210> 30997

<211> 311

<212> DNA

<213> Glycine max

<400> 30997

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gggagccaag ttatcccttg cgtactcgac ttcaaccatt tgagatagct gcctatgaca 120  
ccttggttac ttccactaag ttctttatct tttctttctg ctttattcca ttccttatag 180  
atcctctgga gtgtctttac attagcttca ttgaaacctc gcgtgatgaa aggcgcgatg 240  
gtctcctccg atgggtgcacc tctcataggg taacctaaact ggcttatggc caacatggga 300  
ttataattaa t 311

<210> 30998

<211> 377

<212> DNA

<213> Glycine max

<400> 30998

agcttgtaac tctgattcaa tgactgttaa aaacggtaa gatatactgc aaaattggcg 60  
aactttatcg ctatctcaag atttcaaac atacaatgac tgtactttga aaaaaaatgc 120  
ctaacaacta tcttttagctt aaaattgcgt cagtagcata agaataatgc ttgtattcct 180  
ttgttcacaa tgtaaaagat aactgtatac cacaacaaat atttcttagg cgaaaagaaa 240



<211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31001

gggattcggc tgggtctacat attcagttatt ctatngagag acttgtatac tatgatggga 60  
 agctgcactt gaaaataacca tcacattttc taaactggga tatttctgga tatacttcac 120  
 gtggaatect caagttgact atcaagtaat tctgtcatca gtgaggtgat ctactttggc 180  
 attttctcat catttgaaag actcgcgatg caagctatat ttgaaagtct caaggatgta 240  
 tcagcctcta attgcatctc attgtcctca gtagcaatc tatcgctttt tcacctaaaa 300  
 tgaattaaaa actatctcgg acatgaaaca actcctacag caaagttgct atcaatattg 360  
 tctagctcta tctatgcatt gagggactga ccacattgaa agtattgcgc ttt 413

<210> 31002  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31002

agctttgact tgagtcatca agagattata aatatatgac catggcatga atttcataac 60  
 aatctttttc aacatctctt tcaataatca agaattctatc tttcaatctt ctctctcaac 120  
 atcattcaac tttttctaca gaagtttgtg attcttcttc tcttcatctt tctaaaagtt 180  
 tttgttcaaa actttttctt tcaagaaaag ttctttgatc aaaaacttgt gttattcatc 240  
 tttttttatt cttttctcct ttgtccaaaa gaacgaagga ctaaccgcct gaattctttt 300  
 gtgtctctct tctccctttc caagagaatt caaaggaccc cgctgagaa ttcttttgat 360  
 tcttcccttt cccttanaca aaagatctca naggactaac cgc 403

<210> 31003  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31003

tgtaacgtgg tcatgttaac aagaaaatca tgggttttca tagattcaaa ctcttaggtt 60

ctacgagagc attcaccat tgcattgtcta cttaaagaac cactttttct ttgacctccc 120  
aacctttatt gacatgccac aaataacaga acatagaggt tctttttttt tggatgcat 180  
ttgctttcag ctcatatttg cttttttttt tacgatgata ggtattacaa aagaatgtaa 240  
atctgattct ctatgtatct gttactcata ttcttgaca taatttaacc aaaacactcc 300  
cccaaatttg gaacaaattt gacttgatcc ataataatgc tctctatag cctaagatac 360  
ggtgcacata gatagcattt acatttagct tanggttcaa tgacacatat cgtcacg 417

<210> 31004  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31004

agctttgagc aaattgtaat gacaataact ntatacacgg atgtccggtt gagtcccgta 60  
agatatcgag acgctcaaaa tttagatccg aagctctgag aaaattgaat tgacaataac 120  
tntatacacg gatgtccggt tgagtcctgt aatatatcga gacgctgcaa attgaaaacg 180  
gaagctcgta ggacattcaa acgacaataa cttntactc ggatgttcga ttgaatcggg 240  
taatatatcg agacgatcaa aattgagact agaagctctg agcaaattga gatgacaata 300  
actttataca ctgatgtgcg gctgagtcct gtgatatac gagacgctca aaatttagat 360  
ccgaagctct gagagaattg aattgacaat aac 393

<210> 31005  
<211> 206  
<212> DNA  
<213> Glycine max

<400> 31005

ctcgatatat taccagactc atgcggactt tcgtatataa acttattggc aattaaattt 60  
tctcagagct ttggagcaaa attgtgagcg tctcgatata tgactggact cattcacaca 120  
tccgatgaaa agattatttg cgtgagaata tgagacgagc ttccgttgct aatatggacc 180  
atctctcgct atattgcgat aggcta 206

<210> 31006

<211> 391  
 <212> DNA  
 <213> Glycine max

<400> 31006

agcttcttat ccaatgetca tcttggtggt gaagctcctt cttccatggc ttattcccta 60  
 gtggatggca cctcctctca cctcttcttc tttgtcttcc gctgcatctc catggtggaa 120  
 aaccaccatt aaaggacctc attgaagctc aaagatccag cctccataga agccccacaa 180  
 gcaagtttcc atcagggttat ataagaggtc acatggtggt gtcctagaga attttctcaa 240  
 aaacaaaaat gtcgacatag ttagtttcga gagatctgca aacaccatgt attcaaatat 300  
 catgggggtgt tggcatgtcg cttagaattt gatgtacatt aaaaatgtgg ctctcttctt 360  
 ttctcaaaat ggtgtttcat agttataaat c 391

<210> 31007  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31007

tgttcggctt aattgtagtt tcgaatcgtg gagtagttgt tatcattatg ttttatgcat 60  
 ctttagtagt tggggtttga gacgggctcg aagatggaat gttatttata acaactttta 120  
 ctaagttatt cacaacctct ttaagatctt caagagttga tttcatattt gagatttctt 180  
 gacataacctg tgttatagat atgttttgtg tctcatgcat aacttttccc tctccaacag 240  
 ttgaacacta ctgcaaaaat aacatactac gacagttctt gagtacattt aaagaccatt 300  
 ttgaatcatc tttgaaacca acatcgttga aagtcttgac tnttgacgac ggttntcaaa 360  
 anatcgtctt agaaaaaagt atcattntaa gacggttctt gattaagaac tatc 414

<210> 31008  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31008

agctttctcc atttcatctt cattgtcaaa tcctccaaat cttaatccat acagttgacc 60

actcttgctc ctctggaag atatgaacac atctataacc ctccctattt acggaagatc 120  
 cccacaagt tactaacatt catattcttt ggggaatttag tgaaaaagaa tgtagtttca 180  
 tcacctcccc tcccttgatc acctttccgt gctctacccc tccactctcc atcctctctc 240  
 attttcctaa tgcacttagg gacacataac cccttatcaa gtaaaacaaa ttttaaaaat 300  
 attcttggtt tatttagctt cttattctat taggattaat taaatatnta aaattcaata 360  
 atattctaca tatttagcta aagggaacta tttt 394

<210> 31009  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 31009

tgaactatca ggaaggatgg tgggtctaatt tgtagaactt ttataattcg acatctagta 60  
 cgaaccctat ggtccgatga agacacaact catggtagac ttcttggaag aattcggttg 120  
 gaatgaccaa accaccccag actggtggag cttctacgtt gacggtgcat ccaacgtgaa 180  
 ggggagtagg gcatgaatca tctttgaagg ccctggaaat gtcactctaa agcaagccct 240  
 taaatttaac ttcaaagcct caaacaatca ggccgagtac gaggcactca ttgcaggtct 300  
 aaaactagca acaaaagttg gggccataaa gctctgatgc tacacggact cgcactctgt 360  
 ccaggggcag gttgccaaact gataccagac caaagagaca atgttgctca agtactacca 420  
 catt 424

<210> 31010  
 <211> 206  
 <212> DNA  
 <213> Glycine max

<400> 31010

tagctgtttg aatctatata tggtttaaag ccagcttctc agcatgggga ccttaaggtc 60  
 catggtataa tctgtggata atgggtatgat gataacctta tggatcaatg cctataccgc 120  
 aacgttaagg ggagaaacag aggcgtcctt ggagtgtacg tacatgatat tatagttgca 180  
 ggctatgagc ccggtttgct acatga 206

<210> 31011





agcattcaat cgcaatgcct tatgcatgcg atatctaaca agatgtgccc aatcaattt 419

<210> 31014  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31014

agcttcccat ctctagcatc cctcttgaac ttcaaatacat actgatggaa cttccatatg 60  
tacttcaatt tcctcagatt cctatagaac agagttgtgg gtatgttctg aaagtaaatac 120  
ccaaagtcta ggccattctc atgcagagaa tcaaagatgg ttttttgagg ataccctttt 180  
gctaactgcc tcttgatatg acttggtgaa ccatagagagg ttgctgagta cacaaaaagc 240  
ctattggggtt gtgttgacc aggaattgaa gaanaccacc tgtcaaaaac agcaaattcc 300  
ttaaccaaag cagcataaat cggcacagag tccggtttaa accctttcat gacagtctca 360  
gagagggttg gagacataga caatgc 386

<210> 31015  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31015

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acttccgcaa aaaaatatag ctgggtgtaat gggggttgat ttggcgtgta aggattgac 120  
agtgaagcac ttcaattgaa aggcctgtac agttgtactt ataggtctga tttccactgc 180  
caacaatccc acttggtagg tttattttt atggaaatat cactataagc tctcattgag 240  
gattatgaca atgccctgcc ttggaatgga atagcctttc ctccccttaa aacttttgtt 300  
tccaaaagaa gctgtcgtag attttgact tgctacttat ggtaaagata tttataggta 360  
tacatgtgct taanaggagt ntgacttng attgatgaat gttgtanggg ttgaaattgc 420  
a 421

<210> 31016  
<211> 380

<212> DNA  
<213> Glycine max

<400> 31016

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tctattatga ataatgaatt taaattttac ataagaataa ttatgatagt taaaaacact 120  
tataaagaga tgattaaaaa aatgtacaaa tctagaagat aatattaata ccatacaaga 180  
ataatagaat ataatatata tatatatata tatatatata tatatatata tatatatata 240  
tatatatata tatatatata ctgtgtatat atactcaacc tcatgcatat accttcattc 300  
aaattaaata ataacctata acattcgagc tgcgaaatct gctgctctca tattggatta 360  
tgaattcttt atctaaacag 380

<210> 31017  
<211> 352  
<212> DNA  
<213> Glycine max

<400> 31017

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cagtatgggt aaactatgat taactataaa gtatgatgga acaaatatga aaaggcttac 120  
cgactactgc tgattatgaa ataaatacac aacatacata gagtgaaatg agcatatatt 180  
tcatatgatt acaatgacaa ataagacctt attcatcagt catcaccaaa tgagcataat 240  
cacataaata aatggtcgga aatttgtctt aaattgaaaa ggaaaactgt gaggggccac 300  
gatcactgtc agctgtgggg aatgaataaa ttcaccatt cattcattga tg 352

<210> 31018  
<211> 167  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31018

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gctctgatgc cgcatagtta agccagcccc gacacccgcc aacacccgct gacgcgaacc 120  
ccttgcggn cgcacgaata taacattcga taatgtatgc tataccn 167

<210> 31019  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<400> 31019

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 actctaatagc accttacatg taattgtaca catattattt gcctatattt gatgtttggt 120  
 gtttcttttaa atattgggtga tccttagtga gcttgaaaca ttaacgtgcg gagtaaaaat 180  
 tgcatttttg tttaatgttt caacaaaacc tttttttttt catttttttg gggggggggg 240  
 gggggtgaac aaacaactga tgaaaatctc ctgtgataaa ctacaaaatc c 291

<210> 31020  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 31020

agctttggca tctgagaggg gtcttcatgc tggtattgat ggtttctggg tggaaaatcc 60  
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 tatgtacaag cactggagct tatttaaggc agaaattcta cagcatctgc agtctgtggg 180  
 tggaaaaagg gtgggagtgg aaatttaaata ggagaagaca cttgtttgac agagaccttg 240  
 agatggcaga ttgtttccgt aatgatgttg ctggcaactg tatttacatt cacaaaaagg 300  
 atgagtggat ctggaaaata gaccctactg gacaatatcc ggtaattaaa ggagagacta 360  
 caaacaaca caaatttgat gaggataacg gtggcaatta atgacacatt atgcccattc 420  
 t 421

<210> 31021  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 31021

tgtaaccgag gcatgctaga cggctcttat attacaaga aatccttcca ttgtaagcac 60  
 accacatatg aatgagttta tttttggaaa tatcatcatt aatgataaaa ataaagatct 120



<210> 31024  
 <211> 401  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31024  
  
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 tcaaagtcta tcaaagctta atttaaaata tgtgtgcaact ttggaccaca atgtgtgcaa 120  
 tttctgaaat ggggttcaat ttattataac aaatagtgat gtacataatg tttgtacaca 180  
 tttatatatg tgtggcataa tgaattatac tcgtaaatga aatatactgg tttaggattt 240  
 gttttatttc tgcatacctt agcaaaggaa acaactcttg taaatttgtc aagttaatat 300  
 ccaaaagctt tagctacttg agacgcacga tctgcatatg ccaaaaaata ttatcgtttt 360  
 ctccatcatc caaactnttc agttttcctc ctggttatatt t 401

<210> 31025  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
  
 <400> 31025  
  
 ctcatcactt tcagcaatac attctccac tcaaatagtc tccgatgccca ttcattatta 60  
 tagccaccat tctgaccac ccgagaatca acttcaactga caaggatatac tttatccatc 120  
 acaacgagaa caatggccag atttatcct tcatggtaat ttcacccttc catatatcta 180  
 tccaaaatgc atatatgcac cattccccac ctttctaate atattaactg aaaaccaatt 240  
 caccggacat aatgaattat gattttcccc catcatatcc ttccaccata taaaagtttg 300  
 actatgagtc aaactacctt ccacatccaa tcaatagtca tacctgaaat gtataaaatc 360  
 aaactatata gtgtgcttat ctatagagat tctcctcctc cacttagcta gaaggcttgc 420  
 att 423

<210> 31026  
 <211> 401  
 <212> DNA  
 <213> Glycine max  
  
 <400> 31026

agcttatcat atgtagctga gatgattgga gttccaacaa ctagattatg aagaagtgag 60  
gtctgcatgt ttgatgatta acaaaaaaga tttttgtttt atcaaaggga ctagaagcgg 120  
gtgaacagaa acaggtggag ctactagatt gctagggag ttatgctaac ttgggttgat 180  
gagttccttg tattccaaag aggtatttaa agggatggaa actaggaagt gaatctttga 240  
cactttcttt agtggggcaa ctcaaccttg gatcatcaac cttgattgat aaaaatgtac 300  
tgatatgaca accgtgacaa ttattcaaga taatattttc acatcatgga ctgttttgct 360  
tgctttaaga aatatgggtc ggtaagggtt agctttttga g 401

<210> 31027  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 31027  
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tctgtgaaat tacagaaaaa taaaaggata tgtaagtttt caaaagaaaa aaaagaaaag 120  
caccactgca aatgggtgta aactttccaa agtcaaatat gctagcaatg aaagactggt 180  
tggaagtatc ataagcattt attgtaagat tggtgacttt tataatactt acttttaaag 240  
ttatatcaag cacaatttct aatgggctga cagtgtaaaa atcttcacac tgaccgttta 300  
gcaaacttat acactttgat accatgggat acaaaccaaa ttaatcttaa aactcttctt 360  
acatgcctcc aaagctagga caaatttcaa gtgataatct tattaacaat acatgtaaag 420  
ccaacaagtc 430

<210> 31028  
<211> 329  
<212> DNA  
<213> Glycine max

<400> 31028  
aaatcagcca ttattgaacc attatgaact ctccaaccac cgggaccatc tccggtggaa 60  
gaatcattcc aaacaacagc aacaacaatc ttattttcaa aatgctattg gcccaagcag 120  
aacatacatt tcttcaccaa tccagcaaca acaacagcaa ccgccccaga aacagcaaac 180  
aggtgaagct ccttcgcaac cttcccttga agaacttggt aggcaaata ctatgccaaa 240

catgcagttt caacaagaga ccagagcctt cattcaaagc ttaactaatc agatgggaca 300  
catggctaca cagttaaatc aacaacagt 329

<210> 31029  
<211> 315  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31029

ccttggtccga aaagtcactt anaaccattt taagggtccaa cgccttanaa cggtcctctt 60  
tgctttttatc gattaacatg gaccgttcaa aagcataaga tcaacacata actttaccgc 120  
ttttgcaaga actatgtagg tctgagttcc tcatcacana tcgaggatac gtangagcaa 180  
aagccccgct tttgtcgacc accccaagag atogttaatg gtccaacgcc ttaacgtttc 240  
tctcctttca aaaaccaaga gatcgттаат ggtccaacgc cttaacgttt ctcttctttc 300  
aaaatcaaaa gatca 315

<210> 31030  
<211> 392  
<212> DNA  
<213> Glycine max

<400> 31030

tagcttgtga agatgcttca atggaggaaa agaaagaggg agagaaagag agaggggggga 60  
gcacgaaatt gaaggaagaa aaagggagag aagttgaact ttgagttgtg tctcacaaga 120  
ctctcattca tcaaagttac cacaagtgtt acacatgctt ctatttatag actaggtagc 180  
ttccttgaga agctttcttg agaaaccttc cttgagaagc ttctttgaga aaacttcctt 240  
gagaagctag agcttatcta cacacacccc tctcataact aagctcacct ccttgagaag 300  
cttctttaag aagattccta aagaagctag agcttagcta cacatacctc tcttatagct 360  
aagctcacct ccttgagatg agaagctaga gc 392

<210> 31031  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31031

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gtttaagaag tgaaaatgag aatggggtaa atttggagca aactctcacc tcacacaagt 120  
ctataacatt aatctaaact tgctcaaact ggttctacac ctaaaattcc accgaatcaa 180  
aatttgactc ctcaacaccc aattttaccc tagaaatgac ccttggtttc actttgggtca 240  
ctcatactcc tcatttgcac agtctaagct ttctcttaag tcctaaatga catttcaaac 300  
taagattaac tcactttaac cccaattac cactgaatcc agatttagcc ttccaactct 360  
caaagcctca ctctttttcc actcataaca ccacattctc actttctaac cct 413

<210> 31032  
<211> 285  
<212> DNA  
<213> Glycine max

<400> 31032  
cacttcttat gctcaaagaa gaatcacctc gatcagaaag aactacgcag gtctgatttt 60  
ctcatcccaa ttgaggaata cgtatgagca tagggaaaca cccttgctga cctcgctaag 120  
agaaactata tacaacgggt ataaaggata taaatacata caacgggaac ataaaaaatc 180  
aaagtcacgt ttgcacattc gattaaaggt tgccgtccct tgcgacggac gtgtgggggtg 240  
ctaatacctt ctccgtgcgt aaatacaact cccgaacctt tcact 285

<210> 31033  
<211> 476  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31033

cggcgccatg accccnattg agtccttgca ttacgtgaca cttaaatact aagcttgggg 60  
agtctcgcg cccaccacat gatggtggtt ggtgtctgtc ggagcatcgg gtcctggag 120  
gaatcctcct gacgggcaca gcgcggactg gctgctatct gcagccgct atctactaat 180  
gagccacccc tgcttttact tggcgattct ttttgggtct atgaacacgc aactcaccaa 240  
tttctacca gacttgcgaa ctttccataa tgtcacgta ccttgcggaac taactaattc 300



atcccatatt gacttacaga ggggttacgaa accgtcctaa ctgcgaccg aagcacacat 360  
 ttgattaccc gtggacccca gtaccatacc gattgtgcag caagataacc gtttgatcta 420  
 ctgcacgtac cggaagctca catatagtct tatgaccggc ggcaagaacc tcgcan 476

<210> 31034  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<400> 31034  
 agcttgtacg ccaaatcgtg actggccata tcccttgacc gatggagaga ttgcacttcc 60  
 ttgccctctg atgcattacc ctagtcgagg ggaatttggc gagcgaagac aaatactcag 120  
 aagctttgca atgcatgcta cacaagagac gatggaaccc tgggtcatct aggattgtct 180  
 gagagcattc aaaggatctt attcgagact acccgatcaa gtactgtgag aggggggaaat 240  
 gaatagagga gacaatttcc attaccctag tgtagttgta tacaggcaga cgacgaatga 300  
 cctacagctc ctgatcacga t 321

<210> 31035  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 31035  
 gtgagaatgt gtctgaagaa gcacacgatg ttagacgacc tttacatctc tggaatccca 60  
 atgcggactc tttcagccac tttccactat tgcatagttc ctacctccaa tatcaacatc 120  
 atgactgctt tatcttatgc ttacagcaaa ttgcatctca ccgagaccat tctccaaccg 180  
 agaataccca tgtgtatgag attcctccag ccacaatcca tccagagatc tggccctcca 240  
 cactgtgcat taagagtgac attatgaact gattgccgac ttccaacggg atgtgtccaa 300  
 cgagcctacc tgatgggtga ttacataacc tatgaattaa atatgtctag gctgactacc 360  
 tatttggtc cctgtatgac attgtgatgg tgtagttgct aacaaat 407

<210> 31036  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<400> 31036

gcgctctgga caacaccgaa aacacccgga tatgcagtgg tcaaacgaaa aacaagaaaa 60  
gcaccactgc agacgggtgc aaactttaca cattcaaagtg tgctaccaat gcaagaccga 120  
ttggacgaat cataaacatt tattgaccga tggccgactc ttataacaca cactttttaa 180  
gtcatcataa gcgcatccc gaacggggcg acacagtaaa aggctccaca ctgaccgact 240  
agcagactaa tacgctaagga taccatggg 269

<210> 31037

<211> 377

<212> DNA

<213> Glycine max

<400> 31037

agctttttga actaggatgt gttagatcac ccaataacgc ggccacatac acagcttcta 60  
gctattcgta ggacatttca aggcccgat ccacatgtca atgttacacg gtgatgtttt 120  
taccataaaa tcaaactca ttgctaacta ttataaatat ggcgagagta acttaaaaca 180  
tttattgttg cctcatctta ataccaatct actctcgatt ttgctatata cgtttggatg 240  
atgattgttt cctagagatt ttgatgtcta ttcttataga ttttaaattc ctcatatcat 300  
attgagaatt ggccttggca tcgtgtgatg tgcccatgc agcagcaact tctgttttac 360  
tcatacttct tactata 377

<210> 31038

<211> 601

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31038

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tccttctctc gcannctna nntaaannnn nntanannca gcnaccnagc ggacantttg 120  
gaaacccttg gtagatttgc agtacgacta gccanancng ngacactata nnaaactcaa 180  
gcttggccac tttcatccag aactggtagg ctcanatctt cttctgtcta cctcgacgac 240  
gagaaccaga tcctctcgt catcggagac cacacaagca tgcaagtaaa aggagaatat 300  
attctaacia tagagcacgt acatcgatgc acaactctac actatcacan attatgatag 360

gacgataatg ccggaagagt ctctgcaatg agttatcctt gcaaacgcat acgtacacaa 420  
gaattccaca aagttgacac cttaggtgta taacactcaa cactgagtac aagaggacct 480  
actcgttacc atgtggggcc tcctatgtta tggaaactcg gtgagcacca cccagagggc 540  
gtgccataca cttacaggta accttaccce gcttgcccgg aatgtctgtc ctaggaacgc 600  
n 601

<210> 31039  
<211> 384  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31039

agcttgtcca caaaaatagg ttnttgaagt ttgtcatttc aatttctcac taagtaaaat 60  
ggatcatttt caaggtccaa cgcccttaaaa tgatcacttc ttaagtaaaa aagaatcact 120  
tgataagaaa gaactacgta ggtctgattt tctcatccca attgaggaat acgtaggagc 180  
aaagggaaac acccttgtcg accacaaaaa gagaaaaaat ataaaaagggt tataaaggat 240  
ataaagacat aaaaaggga cataaaaaat caaagtcacg tttgcacatt cgattaaagg 300  
ttgccgtccc ttgggacgga cgtgtggagt gctaatacct tccccgtgcg taaatacaac 360  
tcccgaacct ttcacttaaa agtt 384

<210> 31040  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 31040

tgccacccag ctgcccagg cgagcagggt tgcttctctc agaagcaaca gccttctgga 60  
ggaatcttcc ggagggccca agtgggcctg gttgctattt gcacccccat ttttactaag 120  
tacacccctt gccttttttt ggtgattctt ttttggtaaa gttacggaaa cttacgaatt 180  
tcgtaacgat acttgttttt tttccataat gttacggaac cttgaggatt acataatcat 240  
cccctttttg acttacggaa tgttacgaaa cctcactaat tgtgcaacga tgcttccatt 300  
tgatttccgg tgtgtcacgg aaccttacgg attgtgcac aatattttct tttgttttcc 360

ggcatg

366

<210> 31041  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 31041

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gagagagagc ttctgaaaat gtggggctga gtgaggagag agaggggtgc tttttggttt 120  
aaataaaagg gttttctctt tttctattat tttatttaag caatgccaca tgtctccatt 180  
tgagtggagc aagaagggcc cactttctct ttttgactgt gacctatatt cagtcacaaa 240  
agtgaagaaa atctgacctt tgaaacgcta aaatcctgcc tcggtttgcg tgccgtttct 300  
ttgattccag tttctcgcgt ttctctgcgt ccgccggggc cagttttcga aagcaagcaa 360  
tatatatatc aaaacgctca g 381

<210> 31042  
<211> 439  
<212> DNA  
<213> Glycine max

<400> 31042

tataaaactc agctttacat ggatgtccga ttccggtgaca taatatatcg agacgctcga 60  
aatcgaacaa cggaagctct cgataaattc gaatggatcat aacatttcac tcggatgtcc 120  
gattcgggga cataatatat cgagacactc gaaattgaac aacggaagct ctcatgatat 180  
tcgaatgctc ataacatttc acacggatgt ccgattcggg gacataactt atctagacgc 240  
tcgaaattga acaacggaag ctctcgagaa attcgaatgg tcataagatt tcacacgaat 300  
gttcgattcg gggacataat atatcgatac gctcgaaatt gaacaaccga agctctctag 360  
aaattcgaat ggtcataaca tttcactcgg atgttcgaat cggggacata atatatcgag 420  
acgctcgaaa ttgaacaac 439

<210> 31043  
<211> 159  
<212> DNA  
<213> Glycine max

<400> 31043  
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 cacttggcta tcttgaagat cggccccctt tgccatgtct gattgctcta tcaccataac 120  
 tgccctgctat gaagcccata gtcttcaa at ggactcgaa 159

<210> 31044  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<400> 31044  
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 cctgtatgct gcgcaaaatc tcattcttac tgggtgtcaag tttcagacct tgcgatgata 120  
 tgggactgtg gaactatggg atatatccgg tagctttgtg ttttcagaaa atgatgttgg 180  
 gaaaatcatg gcagcaactt ctgttagtaa ctgcaagagc tcacaatgca gtggttgtac 240  
 aaagcttgac tactcagctg actaatgagc acctttccaa ttttcaagta cctacttctt 300  
 ctgtctaata ttccttttct tttaa 325

<210> 31045  
 <211> 435  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31045

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 tttatgtagt tatgtactat gcataatgcc aaaggacaag tcataactatt cagttttcaa 120  
 aaggaataac cttaaactgt catcctatat tgcattgngg tgggggtggtt aagtaggaaa 180  
 gagaaacata ataaatacaa aaatatgata aagggatata atgaaataaa aaatgttaat 240  
 acacattntt atgtatnttt attattgatt aaaatttatt anaacgttag agattctatn 300  
 tattgttaaa tgtatntaac tcataattct attattntta anaagtttta attaacaata 360  
 aagaatattt taaaataata tatggatctt tnttcacaat aacaacaatg aaattcanac 420  
 ttaanatttc atgct 435

<210> 31046  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31046

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 aaaaaggcca aagtgcgcaa aacatgaata atttaatcat acacaaagca taatttgtaa 120  
 aacaaacata taagattctg atacatacat aaagaaaaac atgaataaaa ccaaattgaa 180  
 atgcaaacca cttagtcata taacacacac cataaatatc atgttcagtc atactaagca 240  
 aatattaaaa gaaatactaa gttttcaa atgttcagtc atactaagca 240  
 gaaaacaaaa tactaataat aatagtaatg tctaaactga tagtggtggt ggaggggaaat 360  
 taatgtagtc acgaatgatg gtgaaatctt cttcaacctt tgtgacccctt gagt 414

<210> 31047  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31047

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 cctangggat tagaactaac ttaatggctg aatgatactg aaattgctgg cgaccaaagt 120  
 tcacccctt cagcaacctg taggcaccat ttggtctccc taaatgctga tgcctacgtt 180  
 gccaatgag cccttaatac aacttgaact aatgcccttg tagttgatta acccataaca 240  
 tacttttggt cagccaactt ta 262

<210> 31048  
 <211> 159  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31048

ctgcaagctg atctgcctct tgtaaaagta tgaccttga attctcggag cttcgttgctc 60  
 aatttcagcg tctgatatgt gaacncctga atcaacatcc gtgtgaaagt atgaccattg 120

aattctcaaa gcttcttggt caattccaca tctcacata

159

<210> 31049  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31049

tcctcggtgc catttcctac gaaggcaaac attggaaagt agttttacca agaaatgcta 60  
ctcttaaaac aaaaatggca tacaacctnc tncaataaac acaaacatcg atgtaaattt 120  
aaaagcaact tatgcacata cttttttacc aacgggtcact tgcaccagac atcttataac 180  
taaaaaaaat gcacccatgt acaatcaagg cacctttcgt acctagatta ttcatatgta 240  
cttgccaagt gtatntgcta cctacatcac atgcactttc tttgctaaaa tacatacatg 300  
catactcaaa gcatttgggg taccaaaaat gcacatgtgc acattccgta tttctaatac 360  
ttatgcatat acaaact 377

<210> 31050  
<211> 460  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31050

agcttttgtg tgatttctga ttttcatgca aaatctanat tagtagatga aaaaccagtc 60  
tagaagggtg atctaatttc agatcatgtg gtaaaatctg ccataacaac tntggggaca 120  
ggagtcaatc ccttttcgaa tactatatca caaattaaag ttgctcaagt aaaaaatgat 180  
acatatacca agccagtagt tagctctttg agaaaacat ccatttctac caatttacct 240  
tctgacccaa aggttcattc ttatattcct tatgtatcta ccatagttag ttggaactag 300  
anaaagagca aattgtcacc agcaatgact actattgatc atgatctaac ataatatata 360  
gtagcacagt gtanaacacc aaagaggata tcatgcttgc caccgaggac tacatacatg 420  
actcacnaac atttannaat tcagaaacat tgacaataat 460

<210> 31051  
<211> 418  
<212> DNA

60307-30740

<213> Glycine max

<400> 31051

aatcttatcc aatatatgat atgtgccatg atacgaacca tattactata gtgagatggt 60  
agtgactacg atgatagtga caatggtggt gatagttaca ctgacaataa tggatgatgac 120  
actagtagcg atagttacag taacaataat ggtggtgaca ttagtagtga tgatggctgc 180  
gacaacgaca atggtaatga gtgatagcag cgataatggt ggtgtttctt atggcgacaa 240  
tgggtggtggt gatgatggtg gtaatgatgg tggtgacaat agtagtaatg gtgatggtta 300  
ggatggtgac aatgatgacg acaatgatag tgatgagtgg tgagacactg gtggtgacta 360  
tgatggatat gatggtggag acaattgacg agtgacaatg atgtgatggg gttattat 418

<210> 31052

<211> 344

<212> DNA

<213> Glycine max

<400> 31052

gttgccctatt gctgtctcgg taaaagcact ctcatgtatt cgttaaccgt tgaatcttct 60  
cgaaagtgggt ttggagggttc ataagacaga tgtgcacgat ctgaccattg cgatttgcca 120  
tatgacttgc ggtgtgtgag acacacttga gtgtttcaag tcttattttc atgtagcctt 180  
gaaaaacagc cattcctttc tacttctttc ttgccaaacc cttccccaac atcccaagct 240  
tcttctttac caccacaac caccagtagc caccacaaac tgccatagtt ctccattgaa 300  
acctcacacc gagaggaacc cttcaatcgg agtggatctt ctaa 344

<210> 31053

<211> 249

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31053

tgccctaagc acaagaaata aaaacatggt acgagactgg ccctgacttt ctctgtctac 60  
tagagtactc atgctgagac agcgcttttt aagccaatga ttgaattacg atggtcacaa 120  
tcaattatgc tcacactgtc acacatatgc gattatatgt tgacacaaaa aaatagcatc 180  
aattctgcac agcttgcttc ctgaattatg gcaagccata ngagtggcaa cgggcagata 240



aataatagc

249

<210> 31054  
<211> 439  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31054

tggaacanat atattgagct cttgggtcccc ttagagattg tgtaaataatg tctcctactt 60  
tatcattaga actaacgaat tcagtaataa cttccttaga aagaactttc tcctggacaa 120  
aatgacaatc aatctcaata tgtttaattc tctcatggaa tactggatta aaagctatat 180  
gtacggctgc ctgattatca cagcatagct tcatttggtg agtatctcca aacttcaatt 240  
cttcgaagaa gttgtttaat ccanatgagc tcacaagtgg ctacagccat agctctatat 300  
tcagcctctg cactagacct ttgcacaaca tttgcttctt actctttcat gagacaagaa 360  
tttctccaac agacacacaa tatgttgaag tggacgcta tcnatgggtga tcctgccatc 420  
tgcttgcaaa tccactatt 439

<210> 31055  
<211> 342  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31055

tccgtgcgag atacatttct ttatgaatac attatttcta aaatcccaac agtgagaatg 60  
tgcaaaaatg acttccacag gtggtgccca aatttcatga gaatccaacg gttaacgagt 120  
ctacgatcgt aattctacta agacaagttt gggatatgc ggaaaagaga gaggttttgg 180  
gagaagaaga agaaagaatg aacttgcgag gagcananag catagagacg tatectaaat 240  
gtaaaactga cctagtatgt ctctatttat agttagggtg ctcttagcct attatttact 300  
ttattatttt ttacaaaca tacttctatc ttactttttc at 342

<210> 31056  
<211> 338  
<212> DNA  
<213> Glycine max

<400> 31056

taacaagatg agttgccaac agagagagtc aatgaataat tacctatcga aataaatttc 60  
cttcttttct ttaaagacga tgatttgtct tcgcacacca caagatgctt ttgctttcaa 120  
agagaatctc cataagcctt aatagtcact ctcaaggggc cgctgaaaat tgctaattag 180  
atagcattat ttatcaaaat acatgtaatt aactatgagt tacataaatt tctagtcatt 240  
taattttttt caacattaat ttctctttct ttatgatccc ttggccatcc caatttttta 300  
agggaggatt gctttccaca cctggggaaa aaaaaagg 338

<210> 31057

<211> 369

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31057

agctttaaga taagtgtgaa aganaagata gcagcctcaa tgnngtgaa actggagtcc 60  
ttgcatatga cagagtcctt tgcaaacggc ctatgcttaa agcaacaact gtacaccttc 120  
aagatgacag aatcaagaat agtcactgag caatcggccg atttcaatta gtccttgat 180  
gatttggaag atatggaagt aaagctggaa gatgaggata aagctctttt gcttttgaat 240  
tccttaccaa aatcctttga acatttcaag gattcaatta tctatggcaa agatcaagac 300  
attaccctan aagaagtcca tgcctcaata aggaccaagg agatgcaaaa acagcaagac 360  
tcccaatct 369

<210> 31058

<211> 352

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31058

tgcaacaaca gtaaattctat tnttgtaaa aatgaagtaa ctaactgtca caacctaccc 60  
ttcggcgagg gggagacgca tgactcgagg gtgcgtgttc caagaaagat atacgcgcgg 120  
agtcgccacc aacgttcatt taaggaaaat gtcggaaaaa ccggaaaaga cgtgatctac 180  
aaactctaag tgaaagggtc gggagttgta ttacgcacg gtgaagggtat tagcacccca 240

cgcatccgtc acaagagacg gtaacctcta atcaaatgtg caaatatgac ttcaattata 300  
 tttatttccc tttctacgtt cttatgtctg tttattcctt ttatgtatta tc 352

<210> 31059  
 <211> 486  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31059

gacgagatga acattgtgga ccctttgatc acgcgacaca tanataactca gccttgacta 60  
 acagagtcgn cncntccttg ttttctntga acttggttcta tatctcacct gtactccctc 120  
 tattgccacc gtacttgga cagggtatg ttgcttacta cgatgtggag cttgatcctc 180  
 aatatcttcc aatctatccc caggatcggg tgtaaacact actcataccc attccaaatc 240  
 cctgaaatgt cctgaacctg atgcaacaaa aacacactcc ccatgaatcg aaaccaacg 300  
 atcactgcca ccgtgtacat ccgccaatta aatgttcttc gtgctgacct ttaactgcaa 360  
 tcccacatca caatgtcaac ctgacaattg tgatcttggc tacaaatcat gagccgtcgc 420  
 ctgttcaata gaacgacctt cgaacctgac atctatcgag cctatctgaa aactctgcgc 480  
 tgcact 486

<210> 31060  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<400> 31060

cttcatcaat ggagtccttt gcttcttgaa gatcaatgac agtggaatgc aaaaggagga 60  
 aaggtgattg gagatgccac ttcaaggaga agagagtcaa gaacaagttc accaccatat 120  
 gaagccatgg ataagagctt gaaagttgga gaaaatgagt ggaggagag ggagagaatg 180  
 ggcacgaaat ttatgcctcg aatgaagtct aaaatttgaa gtgtaatttc tcaaatgatc 240  
 aaagtagaaa taatgcacac aaaaagcctc tatttatagc ctaagtgtca catg 294

<210> 31061  
 <211> 490  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31061

tatgaaccct gttganaccc ttgttgaaac cattggatan cctctcnana tnggcacnt 60  
tggtggggat ctgtgtgccg attattgtag aggctttatg acctatctta agatttgaca 120  
ctgacgattt cgaattttac tttcctgaac atagcgttgt acatgctgtt tcggcaccaa 180  
gaccactgg gataagtcgc tcatgggaca cgggatctaa gtccttttgt taggtctgcc 240  
tgagttttac tgctgactc ttttctttca agatattctc ggtcttaatc tagtcaaagt 300  
gcctgttacc acatgaactg acccttgagt acaccattg ttatgatatc cccacttgag 360  
ctatatacct ggcacacaca cctatatctc ttcactctca tggagaacga gccactgcta 420  
cgacatcata atggttagat agactcccat atcgggtcaa ctggcatatg cattttctag 480  
ccactcttcg 490

<210> 31062

<211> 237

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31062

tgctatttgc acccccattt ttactaagta cccccccctc tgcttgtttt tggtgattct 60  
tttttcgtaa agttacggaa acttacgaat ttcgtaacga tacttgtttt ctttccgtaa 120  
tgttacggaa ccttgccgat tacataatca tccccctttt gacttacgga atgttacgga 180  
acctcactta attatgcaac gaatgcttca ttngatttcc ggtgtgtcac ggaaact 237

<210> 31063

<211> 128

<212> DNA

<213> Glycine max

<400> 31063

tgagcttatac tacacacact cttcatataa ctaagctcac ctcttgaga agcgtgcttg 60  
agaagaatcc tgaagaagct tgagcttatac tacacacact ccctatctta gctaagctca 120  
cccatgc 128

<210> 31064  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31064  
  
 agcnnagant ttcaanttta tntacngaag cagnngagga ancttgggca ttatctttcc 60  
 aagtgatata ttctttcttt cctttcttat ctttgaaagg tttcttgta gaattttcca 120  
 tttttcttct aaagatagga caatcaactc tcagggtgcct aggttgatcg cattcatagc 180  
 attntggaac tgaggaggaa tcttctccct tcttctttgg attgagggtc aatctcattc 240  
 gatttctttt gttctcaga annatattta atccttttac aaagagactg anatcatcat 300  
 cttcttctaa attatttttt tcattcaagt cttctttgcc actttcttca tgaatagaag 360  
 atgaggttnt gaatganatt cctttcttct ttcttctcatt ctcttcatgt tgggtgagtt 420  
 cataag 426

<210> 31065  
 <211> 432  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31065  
  
 tgcattgattt acatctccct ctntctcaag caaattcttc ttgatatcat caaatcttc 60  
 atgatttatt aaagaatttg aaaataaaga ttttgaatta ttttgtgatg aacatggtat 120  
 tgaacataat ttttctgcac caagaactcc tcaacaaaat ggagttgttg agaggaaaaa 180  
 taggtcattg gaagaaattg caagaacttt attaaatgat acttctcttn caagtatttt 240  
 tgggctgaag ctgtcaatac tgcattgttac atcatgaata gagccttgat aagacctatt 300  
 ntaaagaana ccccatatga gttatttaac ggtagaaaac ctaatatctc tcattctacat 360  
 gtttttgggt gcaaagtgc tgtacttaat aatggtaaag ataattctang aaaattcgat 420  
 gcanaatctg at 432

<210> 31066  
 <211> 418  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31066

agccttnctg ataccagtta ccacttcacg canagaanac gaaaggaaga agaacgcgac 60  
ttangtgagg tcaggggtga ggaaggagac cgaaaccact tcacgcaagc aaaaagaaaa 120  
aaaatggtga gggatcacga ggaagaagaa ggccaacgcg ggagggaggg aaggagagag 180  
atgaaccatt tattttttaa ataaaaaaaa ttaagccagg tgtacaaagg tatttttgcg 240  
tcaactgttg agtgcaccaa caaaaatggt ggggtgcacct agcagcactc gccagtgtac 300  
aaacatgaga ccaacatana ggatatccag ttcacgagtn caacatccaa gttctctttg 360  
ttgggtccga gtgttatgcc ctagtgccca aaaaactntc caatatctca tatactcc 418

<210> 31067

<211> 371

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31067

catttatctc atcccattca acctaaacat ttcataaaag tgaacatcat aatcaaagct 60  
tanatattca aactaggaag aaaaattatt caattcaaga ttaagaaaat tctctaggat 120  
aaaaatcatt ntatgaagg acatatcana gcaaaacatg agtgcattga ccacaaagtt 180  
gaaagaattg acaccataga tttagttatc catattccac aataagttgc ctgggtcana 240  
aagcatttca agacacaatt agccaaagaa atttaattatt ntgttgcaag aataattttt 300  
taaataaaag tagctacagt acaagtttat gaacatctat cacaacttat accaagaaat 360  
tcttgataat g 371

<210> 31068

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31068

agcttaaggt ttngnattct attatananc acttcatcac ttgcttggtg aagatcatca 60  
agccggtgcc atgcaatttc ctgcagggtta cacaatttct cagtattttg ataacctggc 120

agtggaatc acatatagag taatttacca tgatcttta cataagaaca aagaaaagca 180  
 atcatgttga aagttctcag ccacaacaca ctcaactgga ggtgcaagga aaaaacagta 240  
 aagaccanac atagatccaa aattcagagt aaaaaagatt caaattagt gaaactctgg 300  
 ttttccttta gtttctctgt nttttgaaat tgacttatca tcccaggatt gtacttttac 360  
 attctactct aaagaagata tcctagacta aactactata tangagataa ttaaagataa 420  
 ctcttagta 429

<210> 31069  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31069

tgtcaaagaa tccaacctct catggtagaa gcaaacacat agaaacaaga tttcactatc 60  
 ttagggatca agtgaacaaa gagaaactga aagtggagta ctgctacaca tttgatcaac 120  
 ttgctgatat ttttaacaaa cccctcaaag gggagagggt taaaaatgta aggggcataa 180  
 ttggcttgat gaacttanga gatcagaata agggagggtg tgagagtta attnttgttt 240  
 gtgtggggta gaattgtttg tgctttgaat ataagagaga gtaacagaat ttttaaattc 300  
 ttgtataagt actagcctaa gtgtgagngg ttattttactc tgttttgctt gtataaangg 360  
 catacatata tcttaataaa gaggatttat tcattctatc attttcagtc tct 413

<210> 31070  
 <211> 402  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31070

agctntgagt tanaatttga ctaccatan accttgaccc agcgtgagaa tgccaatcct 60  
 taccctcgga agcaaaaaaa gaatagaggg gaaatttcca atcacagaan aagagaagga 120  
 aaatttccaa tgaaagcaaa aaagacatga aggaaaattc cccaatcata gagtnggaga 180  
 aagcaanaa aggataagaa ggaaaattcc ccaatcaaag agtgggagaa agcaaataa 240  
 tgagaaagga anattcccaa tcanagaatg ggagaaagta aaaaaggaag aagaagaatg 300

acagaaagct cctgatcaag gatcgaaaga aaccagaaga aatgtgcaga gaggtctttg 360  
gaccagacaa tatctgaaca gtacagaatt gtcaccaa ga 402

<210> 31071  
<211> 357  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31071

tgtaaattatt tattggtata atttgccctgt tccattaggc tcttaatgtc tttagagggtt 60  
acttcctcgt taacatcttt tgtcttgaat ggaattgcc a tgacagggtt attggtactg 120  
tctttgatat ttggtagttg atatttgtgt gcgggaagta attccgattg gattaactca 180  
ccatccttca cttgccaaatt tgctatgaca ttttgtgttg aatcacctat gatgtcttgt 240  
ttccaagggt aatctatatc ctttctgatg gcataagcat gaaaccaatc aaagaanaag 300  
acattaattt tgactctttt cgacaaatcg tagaacttgt cttggatttg ttctctg 357

<210> 31072  
<211> 444  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31072

cctacttgac taggcgacaa tggtgaaaca gttctcacag actcagactc gacagggat 60  
gtgaaagaca atgtggcatt ccagagcagt ccattattac tgtatgatca tgacttcagc 120  
ccttacataa tctgagctca tggtttgctc ttgtcactga tgacggagaa gtcaccggac 180  
cctaccctta ctgtgtcatg cctttgatta taggattgat gagatacagc agggcctggg 240  
taatcacgtc cgattcatgt gtcgagctg gcacagaatc aagatatcag aggtaggctg 300  
ccaccgccat tgctgcattg taacctttat tcagttgggc tactgccaag acatgtgccc 360  
ttatcaacat tagaacgtg catattcgag attgttctct ctgcaccgt cgaatctgtt 420  
gacactgaga agactgtgga taan 444

<210> 31073  
<211> 444



<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31073  
  
 aatttgttat caatacctta aactaataac ttatgacatt acaacatgca aagttggaac 60  
 gttccaactc atggcaaccg taaaagagca aaaagcaact caaagatgcg ttgattgtca 120  
 acagaattaa tggcaaaagc aaatttgagt ttggtagtga ctccttgctt tggcaciaat 180  
 tttatcagga tagtccttcc aagaaagata tgaatcaggg caatcttatg gtctttttgc 240  
 atgattcatc tgtttcgcac aatgaacatc accgtatatt taatgtatat ggagaaatca 300  
 aagaggtgag tttggcttac caattgtttg ttgcacaaag attgatctga ataatttatg 360  
 tgtggntgac taactgtctt gagtttctgt tcatcaattt ctttgggtaca ctttnntgtg 420  
 taatctttgc tggaggatga caca 444

<210> 31074  
 <211> 303  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31074  
  
 tgaaattgat caacggaagc tctcgagata ttcanatggt catatctttt gacaagaagg 60  
 tcagattcag gcacataata tatcgagacg ctcgaaatta aatagcggaa gctgtcgaga 120  
 tattcanatg ctcattactt ttcaactcga ggtccgagtc gagcgcataa tatatcgaga 180  
 tgctcgaaat tgaacaacg aagctctcga gaaattcaca tggtcataac tgttgacacg 240  
 gaggtcagct tcacgcgcac aatatattga gacgctcgat attgaacaac agaagctctc 300  
 gag 303

<210> 31075  
 <211> 517  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31075  
  
 tgatgttcat tgcattcngg cgaatcactc gaccggggat ctgtgagtcg actgaggcat 60

gcaagcttan ctttttagttc tctgcanagg nanccaagcc gnagagaaaa agaagagaga 120  
 atggaggcac aacnnnactg gcgacgagcg agatacagca gcngacgaac acagnactnc 180  
 taaaatcccg acagggagaa tgtgcgataa tgactttcaa aggagggtgcc caagtttcac 240  
 gaaaatccaa cggctcacga gtctacgagc gtaattctac taagacaagt gacggtatat 300  
 gcggaacaga gagaggctct gtgagaagat gaacagagat tgaactggga ggagcaaaga 360  
 gcatacagac gtatcctaaa gggaaaactg agctagtatg tctctatcta gtaggaggag 420  
 actctgagcc tattatngat gatactatta ctctcacaga atactcctat tatactctgt 480  
 cgtcaatgna gaacacagta gaacattcat gtatttg 517

<210> 31076  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31076

tatgcatcca ataccctgat gaggatgtcc catatgttct taaaactgga ctgattcatt 60  
 tgcttccaaa gtttcatggc cttgcaagtg aagacccgca caaacatttg aaagaatttc 120  
 acattgtctg ctcaaccatg aaacccccag atgtccaaga ggatcacata tttctgaagg 180  
 cttttctctca ttcattagag ggagtggcaa aagactggct gtattacett gctccaaggt 240  
 ccatcacgag ctgggatgac cttagagag tattcttaga aaaaattnt cctgcttcca 300  
 ggaccacagc catcangaag gatattctag gtattagaca actcagtgga gagagcctgt 360  
 atgagtactg ggagagatta agaaactatg t 391

<210> 31077  
 <211> 363  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31077

aaataagccc tccatcagtg ggaccttaag cttcattgga taatttcttc atttggttat 60  
 gatgaaaacc ccatggatca atgcatatac cacaaggta atgagagtaa aatatgtttt 120  
 cttgtttcat atgtagatga tattntactt gcagtcaata atcagggttt gctaaatgag 180

gtgaaacaat ttctctctaa gaattttgac atgaaggata tgggtgatgt atcttatgtc 240  
 attgacatta atattcatag agataaacct cgaggattg taggtctatc acatgaaatc 300  
 tatattaaca acaattttaga gagatttang atganagaat gctcaccaag tgcgctccc 360  
 att 363

<210> 31078  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31078

ggacctatga aactcagctt tacatatttn ttccaggaga tagttgtaaa aatatntatg 60  
 caaaagggtga taattgncca tgtattgcat tgctcttagc tcaacattca tccaatgagg 120  
 ggtattgtga gaagagtga aaaacgcggt tttgtagatt aaaacaaatg ccattggagc 180  
 taacgtggaa agacanagaa attaacaatt gcatataaaa aggggggtttc tgggtggtaga 240  
 caatattgta agagaatagt gttggaggaa aataccttaa tttgaagtaa acatgggtatc 300  
 caacctgtgg ccaactcgat gcttttttga ggaatgtgct ctcgctgctc agctgcaact 360  
 gtgccttact attactaaca ggtcaatttg atgatggaca 400

<210> 31079  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31079

agctttgaat ttactattca atggagttga caagaacatc ttcagactga tcaacacttg 60  
 cacagtggcc anagatgcat gggagatcct gaaaatcact catgaaggaa cctccaaagt 120  
 gaagatttcc agattgcaac tcttggctac aaaattcgaa catctgaaga tgaaggagga 180  
 agagtgtatt catgacttcc acatgaacat tcttgacatt gccaatgctt gcactgcctt 240  
 gngagagagg ataacagatg aaaagctggt gagaaagatc ctcagatcct tgcctaagag 300  
 atttgacatg anagtcactg caatagagga ggcccaagac attngcaaca tgagagtaga 360  
 tgaactcatt ggttctcttc 380

<210> 31080  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31080

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 actagtctcc actttctagg taaacttcgt aagattttat caacatgatac ataattatca 120  
 taatgtatac ctagagagcg gagctcggtc agaatgattt ggaagtttcc aaacatgggtt 180  
 tgaatatctt ctccctcttc catattaaag agttcatact tatgtgtcag aaggctcaac 240  
 ttgttacgtt ntacgttaga ggacccttcg taggtaatgg ataaggtatc ccacatttgt 300  
 ttggcgcttt tgaagttgtg aactttggaa tattcttgcg cgtagttga taagaaatat 360  
 agacttatga tcatccatcc atttgcctt ggggatcttg ttcttctga 409

<210> 31081  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31081

tccttgagag gcttctttga gaagctagag tcttaactat ccacaccct ctaataacta 60  
 aactaacctc cttgaaaata aaacatggat aaaataacac aacaaataaa atcaaacatc 120  
 aattataatt gctaataata tttcaagggtg ttacagcttg tccaaagtag ccttgggcat 180  
 gatgttgagg gaagagccat tgtcgataag cactttggcc actatgtggt gatggaagct 240  
 tgcttggtga gcttctatgg aggctggatc ttgagcttc aatgaggtcc ttcaatggtg 300  
 attntacacc atggagatgc 320

<210> 31082  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31082

taagcttatt cttttgacag nntattatca tgcacaacct gcaagaagtg gctcataaca 60

ggccaatcat aactatggag cattttcttg agcaagtagc ctggcctgaa gctcaacttc 120  
 cattggtgag acccaacgag gctactccgc ctgagccac ctgtgcaggt tgatccagag 180  
 ccaactaacc cacaatctct agtggtaaat ccactatctt ctcttgagcg tgaagtagtt 240  
 ccccatctc cacctctgat tatcatctcc gatgcatcat ctgatgaagc agctgcccc 300  
 tctgatcacc anaaggagaa aacagctgac cttctacttc ccctagtgga ggaanttctg 360  
 antcgtcatc tgg 373

<210> 31083  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31083

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 tttataggtt tctaatttct atcatagctt gggtacatat atttatattn tattgatgtt 120  
 gcaggtgcac atttgggact tttcaggaca gacaaccag ttcttcttga atgacaaatc 180  
 tagattgcca aacgattctc ctggtcaact tggaaaagag gtagttggtg attgttaata 240  
 gattggcacg tgtatcaatt ntatcacaag tagtaaagat taatatggaa gttcaagtat 300  
 cgaatccacg aggactttgg ttgtacttta gtgattctaa cccaattatt aagcaatgag 360  
 aagaagtaga agagaaaatg aattgtaagt gtg 393

<210> 31084  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31084

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 aagttattat catgtaaact gaacaactct caacatatct ataatgcatt aagttatttt 120  
 gtagcaagat tttaaccggt ttggtgtgtt tagtgacaca ccagaacatg acattgctaa 180  
 tcattaaagg aaatctcttc taaattgagt aactcactct agagggtaaa gtgagaaatc 240  
 atagttgttg atgaanaaat caacaatcag ttaggtgcac atatatgaca aatcatggat 300

cttgtggaat attgaannat gaatttttagt anatggtcta atttatattt ggttcttaat 360  
 agaaatttgg tntatgaaga atctttaata aaataataat ttttttttat tcttgacact 420  
 tatntctagt tccta 435

<210> 31085  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31085

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 gtagttaata caaccctcg ttcctaccag cggaatgttt ggtatcctc cacatgagaa 120  
 gaggaccctt tcttttcctt ctttccatcg ggggaaccâa ctgatngttc taccttctat 180  
 cccggccaag agctggtccc aatctattct cctcttttca gtacacgagc gatgggtcag 240  
 gagccgacat ggatgtcttg ggtcttggtg gaacaagtgc gaaaccaacc atacacagag 300  
 ggcgggtaag 310

<210> 31086  
 <211> 191  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31086

ggattcattg gcctcttacc tgttcatttt atgtgtggaa ggcctatncc ctatgatcaa 60  
 gaaggtggag agtaaaggac aggtgcctgg ttttgggttt gtaggaatgc ccttctatca 120  
 gtcaccttgt gtttgcggtt gatctctatt ctttgagcat ccaataagga gtgtatgagt 180  
 attcaacata t 191

<210> 31087  
 <211> 175  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31087

ttcctttgac tcgattagct aatgatgtga actgcacgta atatgactga actgaaccaa 60  
 tttgagttag tttaaacaac tgagatctan gacattcaca cggatgatggg cccaattctg 120  
 tctctaggct tgcgtanaac aatccatggt gtgatgattt tcacgagtat tattt 175

<210> 31088  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31088

gcttgctgat tacattctcc cncctttctca agaaaattct taattcttct tgacatcatc 60  
 aaaatcttca tgatttaca atacaacca naaataaaat aaaataaaac tggacgacaa 120  
 ataaaattgt ttgctctttt caagtccaag ccggttcagc ccaattctgg atccaagccc 180  
 aattgcttat aattctcttg aaattaaatt aaaacacaaa attagtcaag taggtccaaa 240  
 tgataaaaact gcataattaa tttgacaatt aagggttaatc agtaattaaa atgggtgacag 300  
 aaaggggttaa gaaataggag aaaataatga cacatcaata ggcaacttcc cccctatgg 360  
 tgattagctt gagtctcaag gaagtttcan accgagtggc atgcccccaa gtacaaatat 420  
 ttttctcat gaaaaactac ta 442

<210> 31089  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31089

agctngtact taacttatga naaatcaaga acaaacttgt tcgcacatcg ttcgctgtga 60  
 tgatatccac tcgacaaggt ttgaagtgga ggagaccttc aatcctataa cgcaacgtgg 120  
 cggacaaaaa tgggcagtta actngaattg ccattattgt caacgcggaa ggtatnttgc 180  
 gcttcactat ccattgtcac acattattgc agcttgtggt tacgtgagca tgaactacta 240  
 ccaatatata gatgttgttt acaccaatga gcacatctta naagcactat ccgcacagt 300  
 gtggcctctt gggaatgaag cggcaattcc tccttctgat gaggcattga cactaatccc 360  
 tgaccaact acaattc 377

<210> 31090  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31090

ttacgaagct ntctgggcct tgcgggcttt tataggagat ttatcaaggg gtatgcttcg 60  
 atagcttccc cattggtggc agcaaccacg gtggagcctt tccagtggac cgcggcggct 120  
 cagctcgcat ttgacctctt gaagaaagcc ttgttcgaaa ccccggtact tgccttgccg 180  
 aatttctagc taccatttac agtcgagacc aatgcttctg gggtagggcat gggtagcaatc 240  
 ctctcttagc agggccacac aattgcatat tttagcaagc catttttgcc taagcttcaa 300  
 cgatcgtcca cttatgtccg agaattgttc gcagtgatgg cggcgggtcaa gaaatgggtgg 360  
 caatacctcc tcggtaccg gttcatca 388

<210> 31091  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31091

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 ttgtaaagac aagggtctaa ttataattga aaaaaagaag attgtgttta attaattaat 120  
 taccaaaggt gaaggagctg aacattatgc ctaaagaatc agagagctct cggtaactct 180  
 tgtacatctt caagtccact ttgcgaaggt aagggtgctc atccatgcta actttgacaa 240  
 agcttgcatc agggctgctg ttcttctcgc tctcttctcc aacgctcttt tgcacagcca 300  
 acatgttctt ccggaaggac cgcacagggt gccaacccac cacctgcgtc ctacacattt 360  
 caactcatca atatcactct atatattatg atcaattaat acgcatcatg aacatatatg 420  
 gcaatcatat aacgaagtta aaata 445

<210> 31092  
 <211> 273  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 31092

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ctctcacat gtcttgtgct aaatgttggt aacacgattc tatagagttt ccaccgatta 120  
aacttgctat agaagctaga attgattntc tatggttcaa atttcttggt attgttcttg 180  
aaccatgaat tgtgttgagt ttaagttgct ttgagttttg tcttggtatt ttttgtggct 240  
gaaacctaaa ccataaaatt cttacaaaat att 273

<210> 31093  
<211> 334  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31093

tgatgtcatt caaaacacac tatgtagacc taaatgaaga ctaatcattg tttatttaat 60  
tggattcatt atacgatata atttgttgta acccgttact aaccaattaa tattatcaac 120  
tactcgtttg gttaagcaag gaaattgttg gtccaacaaa aatcatttac gcgtgcagca 180  
tacatcattg tcataattga caacacataa tgacatgcat gtgtattaca gtttgagcgt 240  
gacaacacat tggctgactt cagtacacat tntgaaacta gcagtcgctc gacaacacat 300  
tggttgactt gactacacat tagcgacaac acat 334

<210> 31094  
<211> 520  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31094

catgactatg cgatgcaata ctagccannc actcgaccgg ngatccttna gtcacctgcn 60  
gcatgcaagt ttggcttcat tatggagcag agaaactcca ccagtaacn ggggaccacc 120  
ncgacaggaa agctctttac catctcgac ccgagcctnc agcttatcta tctcctctgt 180  
ggagctatcc agggctctgg tcaactggct aatcctctcg actcgacaag atagagagtc 240  
gaacgcttct ctgcttcttt cgatgggtggg tcggaactcg taaccgcttg caatgatatc 300  
aacagcccct ttcaacaact ctcccgagc agctccagcg aacggctctg ccatactac 360

tcacacacac tgcgaggaat gaaatgaaag ctcacgaata atatgtacta ctcacacgac 420  
acaçcaaacc gcgcgttttt tcgttgacga tgactacgct atgatctctg agctcgcgta 480  
atcanaacat agaaagacac tgtattctct tcgattaccg 520

<210> 31095  
<211> 347  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31095

tatgcgcata tttccttaca aacgttctct tgcacaagac attctattaa ccgaataaaa 60  
tgcaccata tacaatcaag gcagcttcgt tacctagatt atttacacgt acttccaagg 120  
tgtatttggt acttacatca cacacatctc cttggctaaa ttcacatata tgcatactca 180  
aagcattntg ggggacaaa aattgcacat gtgcacatct tggattttct aatacctata 240  
catacacaaa cctcatgatg aatcttgact atctacacaa taagggtgcta catttcatgc 300  
tcttttcaag tttttgctac ctaaggccgc atgcaaattc aagtata 347

<210> 31096  
<211> 302  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31096

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gaaatgaata tagcaatgag aaaacctata gaatccaccc ctgtcctgtg tctatgctg 120  
acttgctccc atatctactt gataattcaa tggtagccac aacctctacc aaggttcac 180  
aacctttatt tttccgaaaa tacgactcga acgcaacgtg tgcttgtcac ggagaagccc 240  
cgggtgtgtac cattgagcat tgtanggtc tgaaatgtaa ggtgccaggc catattgatg 300  
ct 302

<210> 31097  
<211> 376  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31097

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cacatgacac ctacaccttt gcacacatgt tgagatatta agccctatac ccgggtctgt 120  
gtgagacata nggagtggag gttgatctat ggtcatgttg ggtcttcgac ttgcttgata 180  
acagtgatgc ctcatctaga gttttcttct ttttgctgat gcattgtcac tggtagatcc 240  
taccgccaca atgttggttac ctaagaggat gatattctta gaagccaatg agttacatga 300  
taccaccttg ggagttgcac tagaaggagc tttggatcct ttcatangtc ctgaatatga 360  
cacatacaac tcaactt 376

<210> 31098  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31098

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ctatgggtga gaaacttgcc ccatttgtat ggccatatatt ttcaagggtt ttgctcattt 120  
atcagcttct ccaaaggctt gacctcagtt tcatgcgaaa ggtagaagaa tggaatggag 180  
aacctttctt tctcagagtt gaccaccact ctgtgttcca cactctcata tgcattcattg 240  
ctccaaacct gcacaaacaa ctccaatcct canataaaaa ttctctccac taattacggg 300  
aataaatagt tcataaaactc aaagattaga atatgttntt ttttaaggta tcatgacatt 360  
gggtggaagt atttatactt ttgttagtga ctaatctctc ctgngaagct gggcagacca 420  
ctattagt 428

<210> 31099  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31099

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actgttcttc cttcccgga tgcttctttt catgtccgcc tgagtgggct tatagcctaa 120  
accatacttc ccacgatttc cttgggtatc tatcaggcta gttatgccgc cgttggtttt 180  
gcctaaaccc atcccgggtt cataaccgtt ccccaacata actcgggcca tcattaccgc 240  
tgcacgggac agacaaggct gcccaaagag ggagtccacg gaggaatgc tgaccacctc 300  
anaagactgg aaagcagttt ctaacgattc ttctgaggct tccacataag gcatggagga 360  
tgggcagctt accaagatat cttcctcgcc tgacacgatg act 403

<210> 31100  
<211> 333  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31100

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ccaaaaataa tgaaacctta atctaattt taaaaagat agtgggctcg tacttagccc 120  
atggggcccaa aatctaccct aagggtcata aaaaccctag ggccttctct tgcattctctg 180  
gcccaatcta cttggagttt ctatccaatg cccttgcggn gtaagattgc atcattccct 240  
ccccctagaa gaggatttga cctcaaattc cgaggctctt gaactttggg ctttttttct 300  
cacactatan aagaacaaaa catatgtata gtg 333

<210> 31101  
<211> 156  
<212> DNA  
<213> Glycine max  
  
<400> 31101

gcagctctat ggtaaatgtt aatgtggtga agggaaattc cggcgtgtta aggtttcagc 60  
attgacggcg acgcagagaa gccgtcaacg tcgtccgaga tcgtgttgga acccatcata 120  
gacttctcgg gtaccatcac attgccaggg tacaag 156

<210> 31102  
<211> 322  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations

<400> 31102  
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 aagcttctca ttgttaaggt catttgaacc aaaattctca accaactctc ctatngaata 120  
 aaatcaacgt atgcacttca aattttatac aagatattct tcatgtaact tctccaaatg 180  
 tagattnnta attatgagaa aaacttaatt atttcatctt attttcttct ataagtactt 240  
 attgaaaagt ttctccgaac atgacaatca ttaacattaa naactgcac ctacctaaat 300  
 ccatntgcta gcaagatcat ta 322

<210> 31103  
 <211> 364  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31103

taagcttacc tggaagccta ggaattaatg cttttatata taccattctc tcatagaatg 60  
 caaagcatgg aaagagaaaag actgagtaga aaagactggg aaagaggcag tagaccctc 120  
 aaattgttct tccttttttg ccttctcagt attcctcttt aactctaggt gctacagatc 180  
 tctatttatt gccatactaa accaacaata tggaattaat ctgttttatt tctagtatcc 240  
 catcaagcac caagtgaaaa aataatacca tccaacata cagttgtact taccacctac 300  
 accanagtaa tagaacctac acattaaaaa atattaatag tttaaaggat agtatttttt 360  
 ttct 364

<210> 31104  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<400> 31104  
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 ccctcaggag caaaaaagaa gagaaggaaa atttccaatc aaagaaaaaa aaaagagaag 120  
 gacaatttgc tatcaaagag aaagcaaata aaaaaagag agaaggaaaa tttccaatca 180  
 aaggataaaa gaaaggaaat gaaattccca atcaaagagt gggagatagc gaacagaaaa 240  
 gaaagaaaac tccaaccaa agagtgggag aaagtaaaag gaaggaaaga aagctcctga 300

tcaaggatcg aaagaa

316

<210> 31105  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31105

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taccagttat gaaaacaatg cacgaattct aaaatgcaac acttagcaga aagggtcaat 120  
tgtaaagttc atatagcaat tcaattctaa tccatatata acgtatttta tatatattca 180  
tattcccaa gagtctactt ttcaaata attttatttt catcaaactg tatgtgaatc 240  
aaacaaagta aaaaactatg tgaagtatgt caaagttgaa aattgaaaac agcatgtgtg 300  
cacaaactnt caacaccaa taatttagaa atgactctaa gagcccatc tcatggagga 360  
taacctccca naccanaatn gacattaaag aanatagaaa ctctcaatc cttg 414

<210> 31106  
<211> 307  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31106

tggaaccaa catttaagat atgataagat tgtagttta aggtaatgat tgaaattaaa 60  
tttaaaaata tattcgattt tatagttata aaaaatattg taacctacat ttaaatttag 120  
actattatca gattgctagt gtaagataat gattgaaatc aaatttaaca atatattaca 180  
tttggtagtt ataaaaaata ttgaaccaa aatttaagat ttanaatata tctattaatt 240  
catatgttct aattntttta cgagtatggt ttagagnaa aaaattcatt taatttattt 300  
acaaaat 307

<210> 31107  
<211> 167  
<212> DNA  
<213> Glycine max

<400> 31107

actgctccat attactgata atcatgggac ccatacccca ccaaggatc aacctcattc 60  
 tccgaaatac actcaacgca cgtgtgcttg cttgacaacc ccgggcggtc attgacattg 120  
 aaggcctaag cgtaagtcag gtcaattgtg cggctgctga attcaga 167

<210> 31108  
 <211> 296  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31108

cttatccgga tgcagaatat attccgaaaa gactatctgg atgtaagaat tacctttaaa 60  
 agttttccaa tataatttac attcaaatat ggaagaagta atgggagttg aatttcccat 120  
 ttgaatgcga tggctggaag gcttccttta ctgggctgca agtttgcacc gaaggaacca 180  
 ttgcttactg cacctctaaa ttactaccta cagccacat cattttaaaa caattaaaat 240  
 tttcnaaagt naccgccgacg tgtccttcgc accccattcc ccgtcccatg gatgct 296

<210> 31109  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31109

agcccanncg ttaggcctta attttgggaa caatcncng nattggcaaa gaagacatca 60  
 tatgccaagg gaacaatttc ctccatcac tggaggtata tacctagggt aagagcgagg 120  
 ttgattcata tttctaaaaa tttgagacaa aagttgacct aatacgcttc tacaatcttg 180  
 tcaagataag ttgcatcgag gatgatgaag tcgtccctat atacttgtaa ggtctcaata 240  
 actatatata ccccgaaaag aaaactactt ctttgacaaa gacgggtgttg cactattaga 300  
 aattacactt tcaacatcgg ttatttaggg cattctacat cggctctaan accgatgttg 360  
 aaagtgatga tgttgaatgt atcatcggtt acatcggttt ttaaaaaccg atgttaacat 420  
 anatatgata acatcggttt tctaaataat cgatgtaaac ac 462

<210> 31110  
 <211> 384

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31110  
  
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 tggtcagcag aagagtacaa accacanact cttgcgacag gtacagattt cggattcaaa 120  
 gctagctggg ataccaagtt aaccaatgca tccaagttgc cttcaagctt cttagtctca 180  
 gatgatgcag ntgagtttgt agctacctca tgcactcttc taatgactat agcatcattt 240  
 cttgcgctaa actgctgnga gttggaagcc atcttctcaa ttaaatttct ggcttcagta 300  
 ggagtcatgt ctncaagggc tccaccactt gcagcatcta tcatacttct ctccatatta 360  
 ctgagtcctt cataaaaata ttgg 384

<210> 31111  
 <211> 167  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31111  
  
 agctangcac ttaggatgga atgatattng nagctaata acaactttct taactatttg 60  
 tccttcagaa tttactgttt cttntgtcta atatgtaaat ataaattgta taaggctatg 120  
 gtgtaaaaac atgggtctacc agctcaatat ctatggttta tgcttct 167

<210> 31112  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31112  
  
 ccttgggcaa tccttaccat acaagacaat tttgtggtgt tgagttagac cctaaacccg 60  
 aaatctaaga tggattaga gcctatccta gatacattgt tggggcacca acattgccac 120  
 gctccaggcc catagcccta ggcattaggg ggtgtgttgg acagcttctt taattgcagt 180  
 cactgctaac ctgctntaat tgcagcagca tatgagagtt ggttgccaat gtctcagaan 240  
 aggctaccta tgaagggact gaccagaacg gctgagttaa gcgtcgtagt gtgcaatcaa 300



tgagtctgaa acatcaactc ttaggggggtt gagatccac attaaactaga gataaggcct 360  
tagtattgct tataaagttt gggcaattct caccatacaa ttc 403

<210> 31113  
<211> 281  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31113

tatcatctcc ctcttcatca tttggggcgc tacttgagct gccagatccc tccatctttg 60  
gggtgtattct ttgaaagatt catgctccat cttgcacatg ttttgcagct ggattctatt 120  
cggagccata tcagaattgt actgatactg cctaatagaag gcaaccatta ngtcctttcc 180  
gagaattgac tcatgaaggt tccagattag tataccagct gacggtttcc ccagaaagac 240  
tgtcctggaa gaagtacatn ncacaatttt catttttcga g 281

<210> 31114  
<211> 251  
<212> DNA  
<213> Glycine max

<400> 31114

ctgatggcta tgagaagaaa tcacatgttt gtcacatca aaaaggggga gaatgtgaat 60  
gtatgtatac atgattttga tgatgtcaaa agaagaatca aacaaggctc attttgcttc 120  
aagattaata ccagattggt tcaacaaaca aagccttgat tcaagaattc ttcaagatca 180  
agccttgctt cacaatgaaa ggtttcaagt cattcaaggc acatgtaatc gattaccaat 240  
acatgtaatc g 251

<210> 31115  
<211> 257  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31115

tggatccata gtctccacgc cacatctgta aatgaaggan tccaccctag ccaatgagat 60  
tgcgaccatc aaggctgac aaaagcaagc acaataatgc tatgctgaga gccttgaagt 120

aacaccctat ccttccacta gggagctggc caagcctcac cctacagcga gtgaaggtag 180  
tcaagtcatg aacaaagggc ttacaatccg agccttcatt gtttaccaaa caagcctgga 240  
cgatgaattt gatatag 257

<210> 31116  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31116

accataagag ccttagatat tngttngatc aaaaagagct taacatgagg cagaggagat 60  
ggtagagtt cctttaagat tacgattttg agccttagcta tcatccaggt aaagccaatg 120  
tagtagctga tgccttaagt agaanatccc ttcaaagtgc tgctttgatg gttagagact 180  
tggatctctt anagcagttt agagacatga gtttggcatg tgagatcacc tctaatagca 240  
ttaagttggg tatgttgaga gtcaccagcg aactcttgag cgagattcgc gagggtcaga 300  
agtctgacct attcttgta actcagttag agtccatagt cgcanggaga gagagtattt 360  
ttagagtggc tactgatgga gtcttg 386

<210> 31117  
<211> 344  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31117

tgtccatcaa acaactagga acagtatgga gtctaataca tcaattcata tttcattntt 60  
gcttatccac tttggacttt tcttntgtg gccttttaga gggaaatgca gaaaggattt 120  
tctgtgcac tagtgaagaa agaagcatat tctcaactca actaccaaac aaaaggata 180  
agagactgic cgttgagact tgagaagggt ctttctattg cattnttcct accctgaatt 240  
nttctatgat taccacgtta cctttgcctc tttgaagagc ccaagcctgg agagggaaaa 300  
tgtcatttaa cttaacccat gccttacatg atangtcaca aaat 344

<210> 31118  
<211> 452  
<212> DNA

<213> Glycine max  
 <223> unsure at all n locations  
 <400> 31118

ctttctatatt aatatagngc ngctactggc cttaggtgag gtaatttatt gaaaacacag 60  
 gtctatcaaa tntatgttta attggatgat atatatatat atatatatat atatatatat 120  
 atatacatat atatatatac atatatatat atatatatat acatatatct atatatatat 180  
 atatacacac acacacacac aacctttcat ttccacatat atacaccac agacactctc 240  
 tctcgcagac atatatctct tctgtctctg acacagtgtc tctctcaaac aatacacact 300  
 tctctcgcga gcacccctga gcaactcacc cggcgcgatgg agcgcgatgaa caaactaata 360  
 tacgcactgc acacacatta tcatcccacc gtgatacccc gccactacct tgtgagggat 420  
 cttctctcac tcaacagaca ctgaatacac cg 452

<210> 31119  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31119

tgctgatggg ggtgttgaac tttntacttt tgtttatcat agtaataata tgggggatgg 60  
 ggcacttgca tagattatcg atttgatatg agttattatc tacaaaagag agttctcttt 120  
 agtcttgggg ttgtggtggg gacattgctt tgcaatatgc atattcgcag ctgtggttgt 180  
 gtaatagtaa tagcattttt taaagcatct ttaatagcat ttttgtgtaa tagtaatagt 240  
 ttagttttta aaataaagta ataatcctta gaaaacattn tctattatcg taataaactt 300  
 ttggtagttt atttaaaatt aaatntatca ttntttacca tgatattatt acatcgatgt 360  
 ttataaagac cacattatgt atgaatgga 389

<210> 31120  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31120

nttgttttca atgacgagcg tctcgaaatc ctacgggaca ctattggaca tccgagtga 60

aagttattgt cgtttgaatt tgttttagagc ttatgttttc aattacgagc gttttgatat 120  
cccacgggac acaatcggaa atccgagtta aaagttattg tcgttagaat tttctcatag 180  
cttccgtttt caattacgag cgtctcgata tcttacggga cacaatcgaa catccgagtc 240  
aaaagttatt gtcgtttgaa tttgctcaga gcttcagttt tcaattacga gcgtctggat 300  
atattacaag actcaatcag acatccgagt taaaagttat tgcgttnga ctnttcatag 360  
agcttctggt ntcaattaga gcgtcttcat atattacgag actata 406

<210> 31121  
<211> 243  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31121

tgcattcgga attgcgaaag ccattgctcnc tcattangat tcgttctctgc catctcaaatt 60  
aagcaaataca aacataataa gacaattata gtttctgttt gaataacctca cccactcaag 120  
tgtatcacac aattatggct tttctctaata gaaacactct tgcctttttac cactctaatt 180  
ccccttgagt tcttaagcaa ttcaagagat tatgtgccac aacaaagaac aattcaccaa 240  
aat 243

<210> 31122  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31122

ttatcatttt actanattca aattgncata acatttcaact cagatgtctg attcgggagac 60  
ataatatatc gatatgctag aaattgaaca acggatgccc tcgggaaatt tgaatgggtca 120  
taacgtttca caccgatgtc cgattcgggg acataatata tcgagatgct cgaaattgaa 180  
cagcggaagc tgtccagaaa ttcgaatggc cctaactttt cacacagaag accgattcgg 240  
ggacataata tatcgagacg ctcgaaattg aacaacggaa gctctcgaca aagtcgaatg 300  
gtcataactt ttcacacgat gtccgattcg cagacataac tcattctaaac gtcctcaaatt 360  
gaacaacgga agcaatcgac aaatttgaat ggaataaca 399

<210> 31123  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 31123

tgagatcttt agtcattct aaggcttatg agttattttc gagatattga gtattctctt 60  
 gatgtatatg gaggagaaca caagctagtt atttatagag aaaataatta taatcgtctt 120  
 taatcaatta aatctacaaa gtaattgatt aattcaacga agtaatcaat tagattatct 180  
 ttttaatcga ttaaagtatt cttaccaaca tctggacata actcaagaac aatgtaattg 240  
 attaaatact ccaagtaatc gattaaagtg ttcttattca cttctgaaca cctaagcgag 300  
 agagacgtaa tcgattaaat cacttggtaa tcgattaaag tagagactcc tgataaatca 360  
 gccactgtct caaacaatgg gtaatcaatt acgagatatt 400

<210> 31124  
 <211> 525  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31124

cgattgtatg tanntcaatc gcancaccac ggaccocggga ncctctaagn caccagcggc 60  
 atgcagcnnn gangtangca ttagttgtag gagaacggag ggaggngaag cnaannnnng 120  
 gagcgcacaa ncaggaacng gccangncan nagnnnngaa accatangcg ggacgaaaga 180  
 ctaaagcnga aaaaacactt anggcngaca cgacgaagnc catggagaag ctaagaaaca 240  
 ttctgctaac tctgaaggaa cacaatgtca atagttatac gaccattaaa cagatatata 300  
 atgcacgaag tgcatttcgt tcgttcataa gaggaagcga tcttganatg caacatctga 360  
 tgaagcttct tgaacgtgat cagtatattc attggcacag aatanaggat ggagacgtgg 420  
 ttctgtgatat cttttggtgt caccctgatg cagtgaatgt agtcaacgca tggatttcgg 480  
 tattttgata gacaacacct acnaaacaga cctgtacaga ctccg 525

<210> 31125  
 <211> 306  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31125

ntgaccattc gaatttcgag agtgcttccg ttgttcaagt tcgagcgtgt cgatatttta 60  
tgtccacgaa tcagacatcc gagtgaaatg ttatgaccat tcgaatntgt cgagagcttc 120  
cgttgttcaa tttcgagcgt ctcgatatat tatgtcccg aatcgaacat ctaagtgaaa 180  
tgttatcacc attcgaattt ctcgatagct tctgtgttc aatttcgagc gtctagatga 240  
gttatgtacc cgattcgaac atccgagtga aatggtatga ccattcgaat ttctcgagag 300  
cttccg 306

<210> 31126

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31126

agcnngnnaa ttttctttat cccatnngaa ctntnngnc tttntcagta agttcatgat 60  
cggcctagcc ttctcagcta tccaaggtag aaatcttata aaagaggcta tgcgtcctgt 120  
gagtctttgt atctctttga aagtcttcgg actcctcctc tcaatgacga cttgacattt 180  
atctagatta gcttgtatgc ctctttggga aagcataaaa ccaaaaaatt ntctcctcc 240  
aatcccaaga acacattttt agagggttaag tcgtatgtat gtttttggat ttgtgaaatg 300  
atctcggcta ggtcctcaac atgggacttg actccatngg atntgaccac tatctcatca 360  
acgtacacct ctatatttct acgaatnnta tctttgaaga tcttatccat g 411

<210> 31127

<211> 337

<212> DNA

<213> Glycine max

<400> 31127

tcttcaagaa aagattattc ttggtcttat atgattctat gaagataacc tacaactaaa 60  
aatggtttct gacatggttc tgtaaagatg aaatttttga aaatggacaa gcaatgacta 120  
tcgaacacga aagtaaactc ctgctttact ttttttattt gttatttgct tattttattc 180

tcaatttaga aataactcaa tggacaaaat aatttataaa aataacatat tagccaatga 240  
 cctacattca atttaaataa atgggtcatga ttctttactg tcagtgactt ataacccaag 300  
 ttaacaaaag ggtctattga cataatactt gtagttt 337

<210> 31128  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31128

agctncgata ttagctgttc catttttanca anaaacacaa gnggaagttt attcagaana 60  
 ttagagctta tctcttttat cttagtgaga gtgattctcc taaattcttg agtgattcaa 120  
 gaacaccctg gctgtatcaa aggactttca caacctttga gtgttgccct cgctggaaag 180  
 agtgattctt tccttcctat catctccacc cttgttcttt caaaccacaa ttccagaaaa 240  
 tccacctctg ccataatta tctcgtggcc ataactccca ttntatgcac tcaaattaag 300  
 tgattcttga gcctaaattg actntcanaa cgagaccttt cacctcgnrc tgaaatcacc 360  
 tcattnggag ccctgtagct tcagttattg ccatgtctat atttctgtcc agccaccact 420  
 taacctacat gttaccatcc cattcatcca ttttat 456

<210> 31129  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<400> 31129

gcttatgaat ccatacact cttttccaca ttatctataa gttcctcttt caaaccatt 60  
 ccgaaacaca ccagtatagt agacgaggag ttttatttga gcaactgcgt cttttacaag 120  
 ctcccgttgc ttctgtgtt agaaaactaa cttaagagt attcaccaaa aaaaaaata 180  
 aacaaacttt aagagtcata agttgcttat ggaaatatac atcctgtttt agccgttaaa 240  
 aatacatgct tcgacggatc aataaattta atggtaaagc accacaattc tgtgattgat 300  
 gtgggtctttt ttacgcagca agaataaaaag taccttaacc attaaatcag att 353

<210> 31130  
 <211> 399

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31130  
  
 agctnctant ttttngtttc anaacttngg nnnntctgca agnnggaaat tctgcagaaa 60  
 acaaaatggt ggatcaagtg gnetcagaat aattaagaaa ggggggttga attaattatt 120  
 aatgtgtcct tactaattaa aaatttaacc ttcttaatgt tactagattc aattangctt 180  
 ttactactaa gttaagaaag taaagaacag aaataaaaaac ttaacccaaa gtaaaagcga 240  
 taattaaaag tacatagcag aaattaaaga gtgtanggaa gaagaagaca aacacaagaa 300  
 ttatactggt tgggccacaa accgtgccta catccaatcc ncaagcaacc tgctgttctt 360  
 gagaattctt ttaaccttgt anaatccttt acaagccaa 399

<210> 31131  
 <211> 442  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31131  
  
 tgacaaacaa agctaatcga agcaagcaag aaataaaatc aattattggc acaaaatcaa 60  
 ttgtgcaaaa ggcatttgaa atggtaacat cttttaatat tttatattca ttntcttata 120  
 agttatataa taataactca tttttttatt ntgttatttt ttatatgata tatgaaagtt 180  
 tggtgaaatt tatataaaga catcatacat tagattatat tatttaattt gtcttttact 240  
 atatttaatt ntaatagaaa gaagattcaa aatctggtga atggccagat gctatggaaa 300  
 gttggaaggt cacgcacatg agatctaata gaacttggtg cattccaaaa ggagaagaaa 360  
 tcatggtaaa gaaaaaattc atttaaagtc ttgatgtcaa tattagaatt aaagacatta 420  
 atggtattat gatatcatat ct 442

<210> 31132  
 <211> 438  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31132





<210> 31135  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31135

ggtacctgga gatatgtcgc gggggtcaag agaccttggg gacgtcaggt ggggtgctat 60  
 tgcccaaac caagcttgac caatcccaac ccaacccggg catagtcagt caatgagaac 120  
 ctatgatgta cctaaacagg cgagctcctg gcagtcaact gataaaagga acaaagaacc 180  
 acanagcagg agacttgtgt ggtggctggc cagctgtgaa ctatgattga tatatgggat 240  
 atgggctctg gtaatcgatt ac 262

<210> 31136  
 <211> 248  
 <212> DNA  
 <213> Glycine max

<400> 31136

taccagctg gccttgaatc agatatccgt gcctatcgca aaggtttgtg ggttgtgctc 60  
 ctttggtgac caccatacag acctttgccc ttccatgcag caacctggag caattgagca 120  
 gcctgaaact tatgctgcaa atatttacia taaacctcct caacctcatc agcaaatca 180  
 accatagcag aacaattatg acctcttcag caacagatat aacctggat ggaggaatca 240  
 ccctaacc 248

<210> 31137  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<400> 31137

tgccaccag ctcgcccagg cgagcaaggt tgcttctcc agaagcaaca gccttctgga 60  
 ggaatcttct ggagggccca agtgggcctg gttgctatct gcaccctat ttttactaaa 120  
 tacacccct gccttttttt tgggtgattct ttttcgtaa agttacggaa acttatgaat 180  
 ttcgtaacga tacttgtttt ctttccgtaa tgttacggaa ccttgcgat tacataatca 240

tccctttttt gacttacgga atgttacgga acctactaa ttgtgcaacg atgcttcctt 300  
 ttgatttccg gtgtgtcacg gaacctta 328

<210> 31138  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31138

agctttacaa ttttgtttta aatccaagcc cataaataat ataaaatcta gataagataa 60  
 gataagatct agatgaaata atatctagat gagatcaaat ctagataaga taagataaga 120  
 taagatctag atgaaataat atctagatga gatcaaatct aaataatata tagatgagat 180  
 aaaatctaga taagataaga tctgatagaa taaaattgtc tgctcttttc aagtccaagc 240  
 ccaattccgg attcaagccc aattgcttat aattctcctg aaattaaatc anaaacacaa 300  
 aattagtcca gtaggtccaa ttgataaaac tgcataattan attgacaatt aagcctaata 360  
 agtaattaaa atgatgacaa aaaggggttaa gaaatatgag aaaatgatga cacatcanat 420  
 cccctcacac tta 433

<210> 31139  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<400> 31139

tatagcttac tgattatcca caaaaagctt cactgcatca ctatccttga ttcttaattc 60  
 ttgtaataat gtgtccaacg agacagctag gcaagcactc attgtagctg gaacataactt 120  
 agcttcacat gttgataaag ccactatgga ttgctttctta gaactccatg atattggtgt 180  
 tgcaccatac atgaatatgt aacctataga actctttctg tcattctctgt ctctctccca 240  
 atccgcatca atatatccca ctaattcctc tgagctgatg ctgtctatat ttgg 294

<210> 31140  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 31140

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ttaagaatac ggggtgtcttc caaatacaca tatttaaaaa gaatatttta ttaaatacac 120  
taacgaaaat tatattttta caaattataa tttgaatata ttttaaaacc attcaaagcg 180  
ctcgacagta attgctcgag aaccttcag ggccatcaag aaacctcatt gggaaatcga 240  
tgttaccctt gatagcaaga aagtgaagaa actaatttct tttagaattt tttatttatt 300  
gaaaaccata caaaccacat taccgccttc ctttctaagt agcatacgtg aagcaccgtg 360  
tgccacataa ctctggngtc tctactcact ctcttggtgcc tttgagttaa atcaattctc 420  
acttttagtt cctttcnca ataattat 448

<210> 31141

<211> 421

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31141

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tttatgtatc ttcttttatt atcaaattta actgaggcaa gtcattatag ttaggggtgta 120  
gcagtattag catccctttt ttgagctcta gatcgggcta taaagccaga ccaaacagaa 180  
atcgggtggat gtttgttggt gctacagtca tgagcgtggg accgaattga atgtattacc 240  
ccaaagatag atcacctatc catggaagaa gcacaagaag gactcanatt tcctcttgca 300  
cgaaggtggt ctggtccaag gaccggacca aatattccca ccaattcagt gagattgata 360  
cgcatcatat ttgataaact acatattaat gagggtcatt nnttaatttc atgaataact 420  
a 421

<210> 31142

<211> 273

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31142

attttctcaa ggaaacctgg attacctttt ctttctcggg ctcttcagca ttgctcaaag 60

aaccttctga tactttcccc ttttgtgatt gtaacataac catcttctac aattaacctg 120  
 caatgtacac actgttgacc cttcaacgaa tgagctntaa cagaaagttc agtacagcgt 180  
 ccatctaate tccaagctcg gagggtaaca aaacatgcac tcanaccacc aagatccang 240  
 ccactggctc gaacacatnc attcaatcca aca 273

<210> 31143  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31143

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 aatgggtcca agttaaactg gatgcctaag agcactttgg agaaattacc attcaatgct 120  
 tcccacttaa agccgagttc aatgggtggtt cgtgcctttg acggcaccgg ccgagaggta 180  
 ggggagagat cgatctccca gtacagatag gccctcacac ctgtcaagtc accttccana 240  
 taatggatat taaccccccc ctacagctgt ctgttggggc gcccggtggat ccactcagtg 300  
 ggagttgttc cctcaacact ccaccaaaaag 330

<210> 31144  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31144

tgccaagaca atgcacacgt tctctntttt catgtccttt gacttttgaa tatatatcat 60  
 ttgtctaatt agtagaatct tgggtgctnt gtaaattttg cgaactctct gtttcaacca 120  
 ttttcttttt tagttcatcc tacataaata catcttataa attattatca tacatcaata 180  
 tcctgaatac ttcaatatca ctaaacaaaa ctcatctcca tattagttac tccccctcac 240  
 ccataaacct tctattagag aattgagcac aacaaagaaa aagtattgaa ataaaaatta 300  
 caattcttac aattacaata gcagcctttt cagtaacaat gctttcatct tttcgagttc 360  
 gagtgtcaat ataaa 375

<210> 31145

<211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31145

caagcttgat cttttattct atatctgaca gccaatgggt gaggcccgtc caggtagtcc 60  
 cgaagaanac cggcctcatc atgataaaaa atgagaagga ggagctgatt cctattcggg 120  
 tgcagaacag gtagagagtc tgcattgact ataggagggt gaaccaggtc accaaaaagg 180  
 accattttcc cctgccattc attgaccaga tgcttgaatg cctggcagggt aaatctcact 240  
 actgtttcct tgatgggtnt tctggctata tgcaaatac tattactcct gaggatcacg 300  
 acaacaccac attcaccagc cccttcggaa ctttggccta tagaaggatg cctttcggcc 360  
 tgtgcaatgc ccctgggtacc ttcaagcgga gcatgattag tattttcagt gattttgtag 420  
 acnattcata gaggtgttat ggatgatntc actgatatgt g 461

<210> 31146  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31146

tgtecgacctt gctctagcct ctggagaaat ttttgaagga gaatgtttca agtacataaa 60  
 ggaatgttnt gaaaaatggca cattgcatct cattgggcta ctgagtgatg gtggagttca 120  
 ctccagactt gatcagttgc aggtgattat ttgggggttg agctgttttt ctttcattgt 180  
 tattcagttt attctttcta actaactact tttgtacagt tgttgcttaa aggagttagt 240  
 gagcgaggtg ttaaaagagt ccgtgtccat attcttacag atggccgtga tgttctggat 300  
 ggctcaagtg tggggtttgt ggaaaccctt tgaaaatgat cttgcaaact cgcgcgcana 360  
 aggtgtcgat gctaggatag catcacgtgg aggtcgtatg aatgtcacia tggatcg 417

<210> 31147  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31147

agcttgacat ttatctggtt cgcattngnngn agcagattga tagcgtgatc tgtggatcga 60  
 gatggcgga ggtttgtaag tgggtgaaac aggcattgagt atttcgtaag taactcagaa 120  
 atctcgggta agatgggtgg tgttgtagct gattgtgtgt ttgtttccac tctaataatgg 180  
 aagaagggtgc tagaggggct cctatgtaga agacgacgca gttgcgaggg agacacgggt 240  
 tcacctatct gctcacgttc cccctgtaac tccacaagct taccctcagt gatgaatttc 300  
 atggatggag acgtgtagtc tgtcagaacc ggtcctaatag ttntgagcca ttcgactccc 360  
 agaactacat ctgtgccaca taagggtagg atgtgaaagt ccaccatgaa cgtatgctcc 420  
 tgcacctgt 429

<210> 31148  
 <211> 243  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31148

aaacccgaaa agacctgatc tacgaattct ttgtgaaagg ttcgaagagt gtatttacgc 60  
 acaggggaaag tattagcacc ccacgcgtcc gtcacaagag acgacaacct ttaatcaaat 120  
 gtgcaaatat gacatcnaat tatattcntt tcccttttta cggctttaat gtctttttat 180  
 gcctttnta tgttttatct ttttgtggtc gacaagggtg tttccctttg cttctacgta 240  
 ttc 243

<210> 31149  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31149

agcttggaga ttatgcttct atgtatgana agaaaagagg agagaaagag agaggnggga 60  
 gcacgacatc gaaggaagaa naaggagag aagntgaact ttgagttgtg tctcacaaga 120  
 ctctcattca tcaaagttac acatgcttct atttatagac taggtagctt cttttagaag 180  
 ctgtcttgag aaaacttct tgaagaagct ctttgagaaa acttccttga gaagctagag 240  
 cttagctaca cataccctc tcataactaa gctcacgtac ttgagaagct tccttaagaa 300

gattcctaaa gaagctaaag cttagctaca cacacctctc taatagctaa gttcacctcc 360  
 ttgagatgag aagctagagc ttagctacac acccnctata atagctaagc tcaccncat 420  
 gacannaaaa catgaanata caaaaanaaaa aagtccttac taca 464

<210> 31150  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31150

tgagactnta agcagtgccct gtgattagaa tttcattnta atactttgga gtacgaaaat 60  
 tcaaaaactt tataaaaaaa aaaaaaaaaa aaaaagtagc atgcagtgct acaacaaaag 120  
 cacaggcaca tatgggaaaa taaatgaagt gacgtacaat taagtccttg aaagaaagaa 180  
 agaaagaaaa aaaaactagt ggaagctcaa taatggagga agagaaagtg tggagcagag 240  
 aaagaaacag aggtgtgtgt ggcttcttgt ggagaaggaa gaagaggaag gaggagcagg 300  
 tcaatgtcaa tgtgattnta taaagctaga aaatgaatat aatacaataa ttccttacgt 360  
 aagagttttt aaatgtatat tggcattaat atacttga 398

<210> 31151  
 <211> 453  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31151

agcttgagga ttatggtgta cctatcacat gtggtactag gtggcggtcg ggcgatggtg 60  
 cacaacaagt tttccacatc cacaatgcgc gcataaaccc accatcccct gttgccacc 120  
 tccaactgag ctacagtact cccacgtagc ccatatcctc gtttctctca acaccgggtc 180  
 cccatcaatc ctccaagct tccccaacat caaagtaata caacattcaa acagcacana 240  
 ctatcacagc caagaaaaca gagcanaggc agannactct gccaaaacac caaccanaat 300  
 cacagctttt ctacttaaa gaccccagta acaattcctt cgttccaatt cgttaaccgt 360  
 tggatcgaac tccaaatttt actggaagtc tctagtacat aagcctacat tntgaaccgt 420  
 gggatctact agcanacatc cagaactcat tct 453



<210> 31152  
 <211> 186  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31152

gcctctgtgc ggtatttcac accgcatatg gtgcactctc agtacaatct gctctgatgc 60  
 cgcatagtta agccagcccc gacacccgcc aacacccgct gacgcgaacc ccttgcggnn 120  
 cgatngaata taacttcnnn atatgcatgc tatacgaacg cattaccgat gagccctgac 180  
 ttccccg 186

<210> 31153  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31153

agctaggctt ttgctattgc tgaagagacc agnattcaga ctttgctttg tgaattacag 60  
 gtcacacaca ctacaccgct gttttttgtg acaacatgag cacagttgcc ttagctcaca 120  
 acccagttct gcattccaga accaagcaca tggacctgga cttgtctttt gtcggagaaa 180  
 aagttctgga gaagagaatt caagtgggtc atgttctctac tattgaatat tgatcaatat 240  
 gcagacattc actaaatctc ttaccccatc taattntact ctgttttaggg acaagctcag 300  
 agtggttaaca aagattttgt caaccctca agagcttgcc aggggtatta gagtagaaga 360  
 gtagaattac tcctttcttt tatttcagtc tagcatagtt agcctttata gnntaactca 420  
 actagtgaca gttgtaataa cag 443

<210> 31154  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31154

tgtttacacc taaatacaat catggtattn atactataaa ttaagattat attctaacat 60

tggaaaattt ttacataatt atctaataat aattggaaaa tttttacata attatctaatt 120  
 cataattgga aaaattctac ataattatct agtcataatt cattatatat agcataaatt 180  
 ttttgacttt taaaataatt taaacagtta ttttaattata taattaaatg ataatatata 240  
 aatatttcac attgtatcag cattaacctc ctgcttccgg cttttgtgta caacatggag 300  
 tctttaattt tccatcgatt atgcggctga tactttgcca cacataaatg tataagaaat 360  
 atctttcaga tgttgactag tagttgattc attattttac gggccagat tattctgaac 420  
 atccattcca ctggtgcaat g 441

<210> 31155  
 <211> 276  
 <212> DNA  
 <213> Glycine max

<400> 31155  
 acaacgagat gatgcgctcc atgagagggg ggatcaaag gagaatagag atcataatga 60  
 agaagaaagg aggagaagag ggaatgatgg tgttcctaga caaaaccgaa ttgatggtat 120  
 taaactcaac attcctccat ttaaaggaaa gaatgatccg gaggcctact tggagagggg 180  
 gatgaaaata gagcatgttt tctcatgcaa caactatgag gaggaccaa aggtgaagct 240  
 tgccgccacg gagttttccg actatgctct tgtgtg 276

<210> 31156  
 <211> 290  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31156

attgagtttt ctatgccatc ccttaatgaa atatttatga tgcggtaaa gaaatgttcg 60  
 atcggcgatc tgcggatgatg cttctttttt agacctgat cggatcatctt tcttgccgga 120  
 cgtcgactgg cacttttttc aatcaatata ggtagaaaat atttttttgc cgagatgggc 180  
 taattgtttc gtggtcgaat aaatggaaac atgccagttt tggccgacac aaaaacgtgg 240  
 ttgggctcgc acanaaaaaac ctagccgacc tacattgtac attttttatg 290

<210> 31157  
 <211> 536

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31157

nggcaccgtg gatgatgcan ttgcaatac nggcgaangc agctcggacc cgggatactc 60  
tacagtgcac tgcaggctgc aggttgatgg tantggtgag agacaanggc atggacatgg 120  
cgaaactaag tgagctccgc caattgcaca ctactgcag acttcacgaa cctanagtgc 180  
cactccagaa caagactcac gtatacttgt ggtgcttacc tatctaccct agtgcacagn 240  
caaccacatt gtggatcctt tgcaacggta tcaactaaac aacattggaa tgggtgatga 300  
agacacttga tgataatcaa ctgatttaac tggaacctag tgtaaaacta tgcacaccat 360  
taactaatat aagttatcta tgcgatggct gataagataa tcagctataa cggctcaa at 420  
ctatatactg tatatatata tactatatac atatgaccgg ctaatnttgg gtgataatgt 480  
gtangacaac atggacatgg taattcacgt gcggatctct cacactcagt tatacn 536

<210> 31158  
<211> 529  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31158

cacacacacc actttntaa attatctgtg actaatatct acataatcct acaantaann 60  
nnaaaagccg atgagcatgt gaaccatgga tnacacaact aagataccta acccgacaat 120  
aagagacagt caagacgtgt atttttcacc aactatatgc acacgcatag gattacaaga 180  
gcacaacatt aaaaactaca tcatgggaca caaaaatgcg acatcacaca ctgaagtacc 240  
tttacattcc agccaaaact aactacctgc atgaaaagaa gagtacgaca cgcacaagga 300  
gcacccccat cattgcagga aaacgacggc gaaacacaca ctgagctatg atacacctgg 360  
ggagatgaga gcacgagaga aacaacagat aactcactaa gttatgatgt gagggaacaa 420  
tactcagcat attacaagat gtcaaaacag agagagcaag gatatgactc cctctaccgg 480  
aaaatatggc gggcaaaagg ccataggcct actcacaacc gacaccccc 529

<210> 31159  
<211> 439

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31159  
  
 agcttgngtg tcntgtttat aacttcacaa gagatatttg aaaaaggat tacaaccatt 60  
 tctctatctc tttctcttat ttntatatcc ttatgttttc atatgataag aagaanaata 120  
 aattgaatta agaaaaaaaa ttgatcataa tgatttatcc ctttaggtat aatacaatac 180  
 caaaattgaa atatttatag catattaggt ctacaatttt tattcttaca atcttaaaaa 240  
 ataatcattc tcattatgta tgtcttccta gatccaatat gcaataaata tatcaatttt 300  
 agccttcac catatctaaa ggaataaacc atntaataat aatgactatg caattatatg 360  
 tgaatgataa aattagtttg tgggtacata atcacttata naaatcatat anttttatat 420  
 tttaatttaa cctataaat 439

<210> 31160  
 <211> 376  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31160  
  
 tccattntcc tttctacttt gaatgagtaa ttcttaagtt tcatacatca tcagggtccat 60  
 ccttatattt ttttttcctt ctaattatta aataaaaaata ttgttttctt gaagtctctt 120  
 ccttccatgt aataatgaaa ccgtaagatg accaaattaa ttntacttgc tagttatttg 180  
 aagaaccaac gtcgcacgcc aaaagtcaaa acctacaacc catctgtcat cccgattcat 240  
 tactctcggg attacttcag ggtcatttca ttgttatctc ttcttccttt tcacaccctc 300  
 atttaagatt taaaacacct aanataacct tctttctctt taagaattaa aatcttctct 360  
 cctactcatg tccatg 376

<210> 31161  
 <211> 435  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31161

gctttcatct agtgtttatc agagcacaag agcttcaagt aggtgctcct tanacctcca 60  
 ttaattnttt tctttacctt ctcttcatt gttgtttctt catttttctc catgtatctc 120  
 ctcacatgtc ttgtgctaaa ttttgtaac atgattcttt agagtttcca ccgattaaac 180  
 ttgctataga agctagattt gattntctat tgttcaaatt tcttgttctt gttcttgaac 240  
 catgaattgt gttgactnta ngttcctttg agttttgtct tgttattttt tgtggctgat 300  
 acctaaacca tanaattctt acaaaaaat taaattagaa gaaaacctan aaaatctaga 360  
 gtgacttggt cacctattgt agtntgtca tagaagtcac gtctagtcac gaaacttgtc 420  
 acataagatt tctta 435

<210> 31162  
 <211> 314  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31162

tgttgccatt gaactcatgt gctacaacca agccatgttt gggtttgac cctatgggtcc 60  
 ttattggcgc caactaaaaa agattgtaaa cttagaaatc ctctccaatc gccgagtaga 120  
 gcaactacag cacgttcatt tctcagaagt tcaaagttca atcaaagagc tcttcaatgt 180  
 ttgggtcaagc aaaaagaatg agtctggcta tgcgttggtg gagttgaatc aatgggtntc 240  
 tcatttgaca ttcaacacgg ttcttcgagt ggtcgttgga aagcgacttt tcngtgctac 300  
 aactatgaat gatg 314

<210> 31163  
 <211> 443  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31163

agcttgagct aaatttgact accatnacct tgaccaggtg agaatgccaa tcttcctcgc 60  
 gaagcaaaaa aaaaaaaga agagaggaaa atttccaatc aaaggaaaaa ggagaaagaa 120  
 aatttccaat caaagaggaa gcaaaaaaag gagagaagga nnaatttcaa tcaaaggaaa 180  
 aaagagagga aaggaaattc ccaatcaaag agtgggagaa agcaaaaaga aaagaaagaa 240

aaattcccaa tcaaagaatg ggagaaagaa aaaaagaaga aagctcctgg tcaaagaaac 300  
 cagaagatat gtgccgagag gtccttggac cagacgatat ccgaacaata cagaattgtc 360  
 accaaatgaa caaaagaaag aaagggaaac catgacctan aagtgggtctt ctccctttat 420  
 taccaaccaa aatcctgtgt gct 443

<210> 31164  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31164

gtgaagtgaa gaatatttat tactgagaaa cttaagtgtt cattatagtg gaatcttctt 60  
 tcctaataat ttttttttct ataacgctgt atcttagtta aatgatcaaa gtttaattct 120  
 acttcaacta atctaaatgt ggtaataacg tccttttggc tgcattgcctt gttatatagg 180  
 gggaaactat ctaanatgaa acttaatctt attanggagg tatttttcagc anaatccaaa 240  
 ctcatctcta ctttatctta ttgcttatgt tncagggcac accactggat tctatactca 300

<210> 31165  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31165

agcttnccct tatgaatctc aagtgcncctg gcacgcctat tattctcctc ttaaacacgt 60  
 gtacgttgag catttctcca ttgtccaagc atatactata tgaactatga aatcagttct 120  
 atatgtggag ataataaaat gacatgactt ttaatgtatt ttacagtga tgaataaatc 180  
 attcatatta attatgtaga agctagaaaag gataaaatga tacactntct tcttcttctt 240  
 ttctctttta atttaaacaa ctaanagaat tatcatnttt tttattttca ttntcttnt 300  
 tatccaaaca tgacatagaa tgggttagtt agaanaatat tagcaaaaca canacagcgg 360  
 ngctgaagtg aattagttaa gggctctttn tagtccaagg accggcgctg atgcatggaa 420  
 tatgaaaata tatatataaa acgaattatg ataaaac 457

<210> 31166

<211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31166

agcttgtcca ttaaaatatg tntttgaagt tagtcatttc aatttctgac taagtaaaat 60  
 ggatcatttt taagggtccaa cgccttgaaa tgatcacctc ttaagtaaaa aaaaaaatca 120  
 cttgataagc tagaactacg taggtctgat ttcttcatcg caattgagga tacgtaggag 180  
 caaaagcccc gcttttgtcg accaccccgga gagatcgta atgggtccaac gccttaacgt 240  
 ttctctcctt tcaaaatcaa aagatcattt aatgggtccaa caccttanat gacctttntg 300  
 ttcaatcaaa atatatcttg caaaaagata aaaaacaact taaccaaaaca ctntgttccg 360  
 aaagaactac gtangtcttg attcctcatc gc 392

<210> 31167  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31167

ttctaaatga taggctcaga atgcagaaga agtagcaatc aatttaataa tgttctttat 60  
 acatgcaaga caaaattgat tgcaataata aatgagataa gggaagagag aaatataaac 120  
 tcgatttata ctgggttcggc cactccccgt gcctacgtct agttctcaag caaccactt 180  
 gagattntcc tttctctttg taaaaccctt ttacaaagtt tgaaccacac agggacaacc 240  
 catcccttgt gttcagaaat tcttacaact taagagaccc tcagtctctt aatcaatctc 300  
 tttgattaag aagaagaaga agaagaattc tctcttttaa gagaaagata atacaatgaa 360  
 gttccataaa ctcttaatatg atttg 385

<210> 31168  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<400> 31168

tctgttctca attacgaacg tctcgatata ttacgggaca caatcggaca cccgagttaa 60

aagttattgt cgtttgaatt tgctcagagc ttctattgtc aattacgagc gtctcgatat 120  
 attacgggac tcaatcggac atccgagtaa aaagttattg tcgtctgaat ttgctcaaag 180  
 cttctgtttt caattacgag cgtcctgata tattacgtga ctcaatcgga catccgagtc 240  
 aaaagttatt gtcgggtgaa ttgctcaga gcttctgttt tcaattacga gcgtctccat 300  
 gtattacgag actcaatcgg acatccgagt aaaaatta 338

<210> 31169  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31169

aaatgtttca aacttttatg gtcagtgtaa accacaaagg gcctgcccac cagatagtgc 60  
 ctccagcgtg gaatagctaa cactaaagcc atgagctcct ttccatacgc agattttgat 120  
 aaatcgccct ctgatcaagc tatgctaact aaagctatag gctgcctctg ctgcatcaaa 180  
 acagcaccaa ttcctctccc cgccgcatca cattccactt caaacagaat agagaaatca 240  
 ggtaacacta gtactggagc tatagtcatg atctgcttca gatgattgan agcctccaga 300  
 gcatcttttc cccaaataaa gttattcttc ttagtcattt cagtcaacgg gttagcaatt 360  
 gtaccataat cctttgataa tttctgtata accc 394

<210> 31170  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31170

tccacttgta tactgcaacc ataataaaag ctntctattn ttccctcccg tggatgtagc 60  
 ctttctcaag gtgaaccacg taatcctgtg tgtgttcttt ctcatctctt tctctttcaa 120  
 ttctgatgca atttgtgtgt atgataattt tggtatgctg catctattgc tgctgttctt 180  
 gcttggttctt catcacttcc ataatagcct tggctatcga tgtaggcacc ttgggcaccg 240  
 gtgagggccg tatgaactgc taacgttccc tttntactca ttatttattt cttntattg 300  
 gtaatttatt caaatgttct catcgtcacc tttctccttt cgctatgtn ttttctttt 360



ggccaactat ggcgaaactg catcgtgtcg cegtgtgtgc gccaccatct tcgcatcgt 420

<210> 31171  
<211> 452  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31171

gcttangtgt tttatgacca atctaaattc tattaaatac atatattcgt agcatgtgtt 60  
ttcaaggaag tctacgttac attaactttg attatatact aacttgattg gttatgtcat 120  
gtttgtttta taagatttga tgcccaagtt ttctgaagtt gttgaaaatg attcacaatg 180  
tggtgaaaaa agaagcaact aatttatcaa aggattntga agagttaacc cctactaaac 240  
acaatttcag ttgctattca gctatgggag aattgactcc taatgaaagt tagtctgcaa 300  
cccanaataa ggataaatga tcttttgctc aataattctg gagatttgat tcccgttgga 360  
actgtatttg gaactcanat acattcacag cccgaanaca ttgaaggtgc atataagcaa 420  
ctgggtggat gtttgataat gtcanaacta at 452

<210> 31172  
<211> 323  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31172

ccaaacgcac ctttcttcaa acattcggtc gtaggacttg ctataacgct aacattctgg 60  
ataaagcggc gattacatga tgcaagacca aggaaagatc tcacgctacg aactggtaga 120  
aggctcggcc aagtcttgat agcatgcact tttgtttgat caacggatac tccatcttta 180  
gacaccacat atccaagnac accacacttt caaccaagaa agcacactnt tccctcttgc 240  
catagagtnt tcgggctctt aggggtctcaa atatttggtt canatgagtg aaatgccct 300  
ctatagatnt gctatacacc aat 323

<210> 31173  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 31173

agctttacat tactcaccca cctatggnta gcaaagtgtt ttgtgtggga atttagatga 60  
 tcattttgtg ttttccttaa gttggacaat gaggcgagtc gaggtggctt tggcccocttg 120  
 gccccgtaaa aggttgagtg agtttaggtt atatttatcc ttgccctgct aaggtgcttc 180  
 attgtcatgc tggggtagtt nttcatctta ctcaagtact tcttccttat gctaaggtag 240  
 cttttcctct cagtgttgag ctacctcctt gtctatgtca gttccctcat cctcaaactc 300  
 aacataacct tattgagttg atttcattnt caccctaana aagttgactt ggattgngca 360  
 tcatttaatg ctcatgtan gtggctctgc ttgangtcgt ggagatggta gtgtanaatc 420  
 tctatgatga ca 432

<210> 31174  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<400> 31174  
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 ttctcaaaat gaaggggtctg tgtttggaag tggcgatgag gtggagaaca acctcggtgt 120  
 cggaggtagt gttgaagatg gaccgcgtgt cctcgagggtt ggttcggagg gtgcggtagt 180  
 tgacgaggtt gccgttggtg gccacgccga cggagccgaa gcggtagccg gcaacgaagg 240  
 gttgcacgtt tttgagcatg gattggccgg cggaggagta gcggacgtgg ccgatggcga 300  
 ggctgccggg gagctgggtc agcttcgact ggttgaacac gtc 343

<210> 31175  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31175

agtttttaaat tttatatnta aatntctaaa agctgataca aatagtntaa acttctgcta 60  
 atcgattaca taccttgtgt aatcgattac aggcttttaa attcaaattc aaaattttca 120  
 aattttttca gaaatcaact tagccactgg taatcgatta catcatctgc taatcaatta 180

ccagagagga aatatcatat ttttgaaaag ataattgttc tttaaaaaac ttttgtaaaa 240  
tatttccttt agccaaacct gtgcaacatc aattaaggaa ttctttctaa gattctaact 300  
atgtatatcg ttcttcttgc atttctgaat tcttgactta aatcgcgctt atctttggca 360  
tcatcaaaac ttcatatcat atatgcttct acatcctana gtaatacttt gaaagacaga 420  
gaagacatca naatgatttt tca 443

<210> 31176  
<211> 245  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31176

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acttctttga gaagctagat ccttatctat ccacaccct ctattaacta aattaacctc 120  
cttaaaaata attacggata aaaataacac aacaaataat tcaacatcaa acataattac 180  
taataattta tatatatata tatatatata tatatatata tatatatcan ggtgttacac 240  
ctact 245

<210> 31177  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31177

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cactctgcat gtctgtcaat tgaccatgcy atatccacgt cgtgtaattc ttcttaatcc 120  
catcacacaa tagatggtcc catatgtcgt ccagtatttg tgccttccg ttcaaacaat 180  
tgatacgagg aactaatat tttccatctt catccagtcg acttctttnt gaagtaaatt 240  
gcaagaactg ctcgacgcct tccatcatatt ctgggttgat gtgactntca ttcatcaaac 300  
ttcgatccat ctcagtaata actctgtgat actcanagtt attcgatgct tganaatctc 360  
actnntttat tatagggtgtg gccctatccc attcangaag accgtctntt atggtagctt 420  
catacgtca 429

<210> 31178  
 <211> 370  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31178  
  
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 cctttttaag aggaaacaga tcgagacact gacgaataca aatcacaaaa ccgtgaagaa 120  
 aattcacaaa aacgctaaaa tttcataagt tctcaacca cattcccaa accccacaag 180  
 ttttcttcat tttctcagca aacaagcagg aaaaaaaaaa ggcaaatcag gaggattgca 240  
 cattatgcac aaagtttagat ctgagaaaaa aaaaaacca aatgcatgca aaaaagaata 300  
 aagaaataaa caagttgaat caacaatgat gaaatntgaa aataaaacta aaaaaaaaaa 360  
 agtagaaaga 370

<210> 31179  
 <211> 450  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31179  
  
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 tgtttccctt tccttggttt gaagctcact acaagcctta agtgaaaaac catgatatta 120  
 ccatatcctt aaggaatttt ggagcttttg aattgttttg ggaataagtg tgggggggtt 180  
 ttgtttcatt ggacaacttg ttttggtgac tatgcttcat gatgtatttt gggccatact 240  
 tgatgtacat tgtatattgg ttaaagtgtg gacatgctga atgaaatgtt gtttctcaaa 300  
 ggcaaaaaaa aaaaaaaaaa aaaagcaata aagttgagtg aataagatct ttaatggcac 360  
 aagaatgatg aaactcttga gtctactctt catggttaat tnttatcttt acttcttttt 420  
 tntttttctt aatatgcact tattccccctt 450

<210> 31180  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31180

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 catagcaaat aaagtctcaa agctgaatga ggaaggtcct gtagaaacta gagtaggaac 120  
 tggcaaagga gtgaatgctg aagctagaac tggtaaagat gaagctggaa tagatggagc 180  
 tgcagtagaa ggagctactg atggnggaat ctcaaaagat gggagagtct ttgacctttt 240  
 ccccttggcc ttgcgaggcc ctctaaaagt gattgagggg tcatcgacgt tccaccaat 300  
 tttcttcatg taagccaaat taatggttgg actg 334

<210> 31181  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31181

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 ctattaagtc tgatgaaccg acctgtttag caataatatt ntatattaaa gatattatta 120  
 ttaatatgat atatagtata attattatat ttaaattata aaattatttt aagagtttga 180  
 caattataat tagtgcttga aatatcttaa ttctgataaa tataaatgtg tacaaaaata 240  
 tacattcttt tctttgggtg agacttaaaa gacttttagca atatgtcacc cacaatgggt 300  
 ttccatattt tattgttaaa attgtcttat tattt 335

<210> 31182  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31182

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 acggtacca actgcgttgt atagaaatct atacctggcg caaaaggcta tgggttatgc 120  
 ttctctggcc aacaccacac aaaacttttt ctttcatgc cgcaacctgg agccattgag 180  
 caacttggaa cttatgctgc aaacatttac acaaacctt ctcaacctta gcaggcaaat 240  
 caaccaccgc agaacaatta tgacctcttc aagcacaaaa tccattcccg atggaggaat 300

aacctaattct tagaggtcta gccctaacaa caacacagca gcctgctctt tctttcaaat 360  
 gatgctgcta aacaagcatt cattcttcac aatcaacaca gcacagccca gaacacaaca 420  
 gttgagctct cgaaccttct cgagactgta gg 452

<210> 31183  
 <211> 236  
 <212> DNA  
 <213> Glycine max

<400> 31183

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 agaagaatgt ggcatttacc tggggtgaaa aacaagagca agtctttgct ttgctcaaag 120  
 aaaagcttac taaggcacct gttctagctc ttctgacta ttctaagact tttgagctag 180  
 aatgtgatgc ctctggagtg ggagttggaa ctgtattgtt acaaggtggg caccct 236

<210> 31184  
 <211> 512  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31184

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 ctgcaacaca ccagananag ncgcaaagca gaaggaggaa cgggctgcag aaactaaacg 180  
 acgaactggc aaaggagtga acgctgaagc tcgaactggg caagatcaag ctggaataga 240  
 tggagctgca atagaacgag ctactgatgg gggaatctca taagatggga gagtctttga 300  
 ccttttacc ttgggcttgc gaggccctct aaaagcgact gaagggcacc gacgggccac 360  
 cacattttct tcatgaacgc caagtaatgc gtggctgaga ctcccacaag ataatgaatt 420  
 cgaactggca tcctatgctc ttgctaaagg agcaatgata gcagagaaga ctatcctccg 480  
 gagtattctg tgctacacac aaactaacag ag 512

<210> 31185  
 <211> 411  
 <212> DNA

<213> Glycine max  
 <223> unsure at all n locations  
 <400> 31185

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 aagaattaag ccaaggctat tgtgcaagca atcaatgggg caaaaaaacac taaaagatta 120  
 tgatgatgga tggctcaa at tctcaciaag gtaaacttat cactttcaaa ttgagctttc 180  
 aaaactatca tgacatgtag aggaaaaaca aggatttcaa atcacaaaat gtcaagagac 240  
 ttttattttc agaacaatta cccattactt gaacatatcc tataattcan agacaaacat 300  
 gcaaatttaa cacaacaaaa ctaacaaaat taaactaatt taacacaact aacaaaacca 360  
 aaaccaaaga acacactccc ccccccata cttaaacaac acattgtcct c 411

<210> 31186  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31186

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 caaaacaaga aatgaattga aagtctcgga ttcgaaaact tatcggttga agaacgaaga 120  
 acggtgaaga acgacaaaaa atcttcatga aattgctcac gaaaatgtct cggaagtgtt 180  
 acggaagcac ctgggcttgg attttcttca cgaaaacatg gtttttcacc caaacagtt 240  
 gaaatgcata gccaaagggg ttaggggccc tttggaacag ccccccttg cctatttata 300  
 agaaaaaggg gaggaggttg ccgcctagca ngcccagggtg agctgagttg cttcctcctt 360  
 aagtaaccaa gcttccanaa ttcgaaaaat tgaaaatggc tattngcacc cncatcttga 420  
 taagtcaccc ccttttcgta attacgaaaa agtat 455

<210> 31187  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31187

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